

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

STRUCTURAL ANALYSIS

PROJECT

B3_Frame

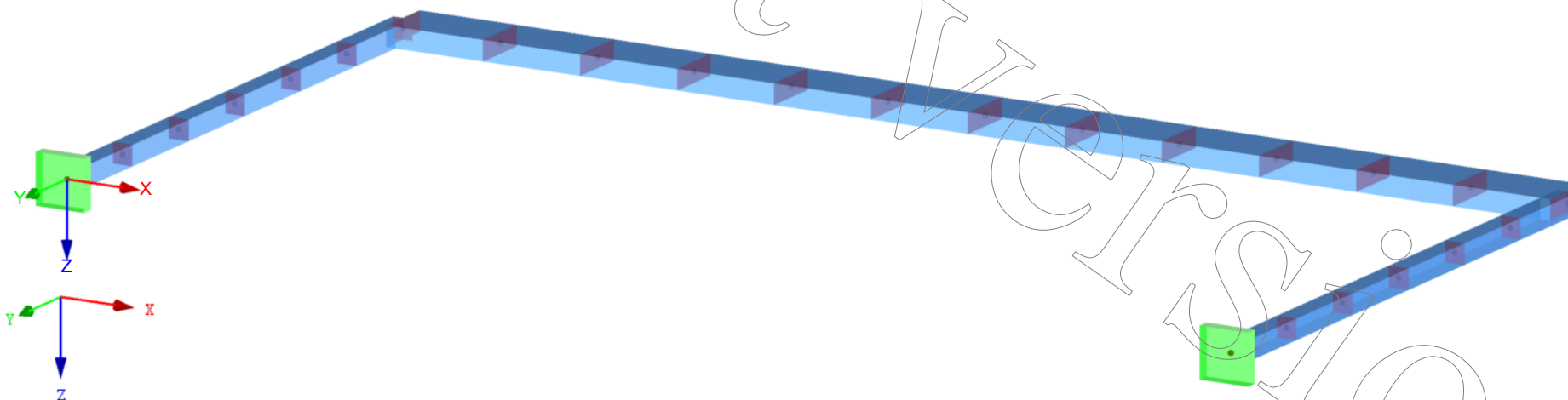
CLIENT

ENG-A2001

CREATED BY

NGUYEN XUAN BINH 887799

Isometric





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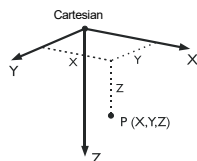
MODEL - GENERAL DATA

General	Model name	:	B3_Frame
	Project name	:	Assignment Week 6
	Type of model	:	3D
	Positive direction of global axis Z	:	Downward
	Classification of load cases and combinations	:	According to Standard: EN 1990 National Annex: SFS - Finland
	<input checked="" type="checkbox"/> Automatically create combinations	:	<input checked="" type="checkbox"/> Load Combinations
Options	<input type="checkbox"/> RF-FORM-FINDING - Find initial equilibrium shapes of membrane and cable structures		
	<input checked="" type="checkbox"/> RF-CUTTING-PATTERN		
	<input type="checkbox"/> Piping analysis		
	<input type="checkbox"/> Use CQC Rule		
	<input type="checkbox"/> Enable CAD/BIM model		
Standard Gravity			
g		:	10.00 m/s ²

FE MESH SETTINGS

General	Target length of finite elements	l_{FE}	:	0.500 m
	Maximum distance between a node and a line to integrate it into the line	ϵ	:	0.001 m
	Maximum number of mesh nodes (in thousands)		:	500
Members	Number of divisions of members with cable, elastic foundation, taper, or plastic characteristic		:	10
	<input checked="" type="checkbox"/> Activate member divisions for large deformation or post-critical analysis			
	<input checked="" type="checkbox"/> Use division for members with node lying on them			
Surfaces	Maximum ratio of FE rectangle diagonals	Δ_D	:	1.800
	Maximum out-of-plane inclination of two finite elements	α	:	0.50 °
	Shape direction of finite elements		:	Triangles and quadrangles <input checked="" type="checkbox"/> Same squares where possible

1.1 NODES



Node No.	Node Type	Reference Node	Coordinate System	Node Coordinates			Comment
				X [m]	Y [m]	Z [m]	
1	Standard	-	Cartesian	0.000	0.000	0.000	
2	Standard	-	Cartesian	0.000	-6.000	0.000	
3	Standard	-	Cartesian	12.000	-6.000	0.000	
4	Standard	-	Cartesian	12.000	0.000	0.000	
5	Standard	-	Cartesian	1.000	-6.000	0.000	
6	Standard	-	Cartesian	2.000	-6.000	0.000	
7	Standard	-	Cartesian	3.000	-6.000	0.000	
8	Standard	-	Cartesian	4.000	-6.000	0.000	
9	Standard	-	Cartesian	5.000	-6.000	0.000	
10	Standard	-	Cartesian	6.000	-6.000	0.000	
11	Standard	-	Cartesian	7.000	-6.000	0.000	
12	Standard	-	Cartesian	8.000	-6.000	0.000	



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1.1 NODES

Node No.	Node Type	Reference Node	Coordinate System	Node Coordinates			Comment
				X [m]	Y [m]	Z [m]	
13	Standard	-	Cartesian	9.000	-6.000	0.000	
14	Standard	-	Cartesian	10.000	-6.000	0.000	
15	Standard	-	Cartesian	11.000	-6.000	0.000	
16	Standard	-	Cartesian	0.000	-1.000	0.000	
17	Standard	-	Cartesian	0.000	-2.000	0.000	
18	Standard	-	Cartesian	0.000	-3.000	0.000	
19	Standard	-	Cartesian	0.000	-4.000	0.000	
20	Standard	-	Cartesian	0.000	-5.000	0.000	
21	Standard	-	Cartesian	12.000	-1.000	0.000	
22	Standard	-	Cartesian	12.000	-2.000	0.000	
23	Standard	-	Cartesian	12.000	-3.000	0.000	
24	Standard	-	Cartesian	12.000	-4.000	0.000	
25	Standard	-	Cartesian	12.000	-5.000	0.000	

1.2 LINES

Line No.	Line Type	Nodes No.	Line Length L [m]		Comment
1	Polyline	16,1	1.000	Y	
2	Polyline	5,2	1.000	X	
3	Polyline	4,21	1.000	Y	
4	Polyline	6,5	1.000	X	
5	Polyline	7,6	1.000	X	
6	Polyline	8,7	1.000	X	
7	Polyline	9,8	1.000	X	
8	Polyline	10,9	1.000	X	
9	Polyline	11,10	1.000	X	
10	Polyline	12,11	1.000	X	
11	Polyline	13,12	1.000	X	
12	Polyline	14,13	1.000	X	
13	Polyline	15,14	1.000	X	
14	Polyline	3,15	1.000	X	
15	Polyline	17,16	1.000	Y	
16	Polyline	18,17	1.000	Y	
17	Polyline	19,18	1.000	Y	
18	Polyline	20,19	1.000	Y	
19	Polyline	2,20	1.000	Y	
20	Polyline	21,22	1.000	Y	
21	Polyline	22,23	1.000	Y	
22	Polyline	23,24	1.000	Y	
23	Polyline	24,25	1.000	Y	
24	Polyline	25,3	1.000	Y	

1.3 MATERIALS

Matl. No.	Modulus E [MN/m ²]	Modulus G [MN/m ²]	Poisson's Ratio ν [-]	Spec. Weight γ [kN/m ³]	Coeff. of Th. Exp. α [1/°C]	Partial Factor γ_M [-]	Material Model
1	Steel S 235 SFS EN 1993-1-1:2005 210000.000	80769.200	0.300	78.50	1.20E-05	1.00	Isotropic Linear Elastic
2	Steel A992 ANSI/AISC 360-16:2016 199948.000	77221.300	0.295	78.49	1.20E-05	1.00	Isotropic Linear Elastic
3	Beam & Column Material 36000.000	15000.000	0.200	25.00	0.00E+00	1.00	Isotropic Linear Elastic

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1.7 NODAL SUPPORTS

Support No.	Nodes No.	Axis System	Column in Z	u_x	u_y	u_z	φ_x	φ_y	φ_z
1	1	User Defined X',Y',Z'	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	4	User Defined X',Y',Z'	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

1.7.10 NODAL SUPPORTS - USER-DEFINED AXIS SYSTEM

Support No.	Direction Type	Sequence	about X	Rotation [°] about Y	about Z	Coordinate System	1st axis	Node 1 No.	Node 2 No.	2nd axis	Reference Node	Member/Line No.
1	Rotated	ZYX	0.00	0.00	-90.00							
2	Rotated	ZYX	0.00	0.00	90.00							

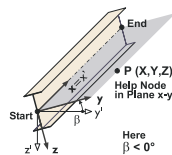
1.13 CROSS-SECTIONS

T-Rectangle 0.6/0.2 T-Rectangle 0.2/0.2



Section No.	Matl. No.	J [cm ⁴] A [cm ²]	I_y [cm ⁴] A_y [cm ²]	I_z [cm ⁴] A_z [cm ²]	Principal Axes α [°]	Rotation α' [°]	Overall Dimensions [m] Width b Height h	
1	T-Rectangle 0.6/0.2 3	126434.23 1200.00	40000.00 1000.00	360000.00 1000.00	0.00	0.00	0.600	0.200
2	T-Rectangle 0.2/0.2 3	22506.67 400.00	13333.33 333.33	13333.33 333.33	0.00	0.00	0.200	0.200

1.17 MEMBERS



Mbr. No.	Line No.	Member	Rotation Type	β [°]	Cross-Section		Hinge No.		Ecc. No.	Div. No.	Length L [m]	
1	1	Beam	Angle	0.00	2	2	-	-	-	-	1.000	Y
2	2	Beam	Angle	0.00	1	1	-	-	-	-	1.000	X
3	3	Beam	Angle	0.00	2	2	-	-	-	-	1.000	Y
4	4	Beam	Angle	0.00	1	1	-	-	-	-	1.000	X
5	5	Beam	Angle	0.00	1	1	-	-	-	-	1.000	X
6	6	Beam	Angle	0.00	1	1	-	-	-	-	1.000	X
7	7	Beam	Angle	0.00	1	1	-	-	-	-	1.000	X
8	8	Beam	Angle	0.00	1	1	-	-	-	-	1.000	X
9	9	Beam	Angle	0.00	1	1	-	-	-	-	1.000	X
10	10	Beam	Angle	0.00	1	1	-	-	-	-	1.000	X
11	11	Beam	Angle	0.00	1	1	-	-	-	-	1.000	X
12	12	Beam	Angle	0.00	1	1	-	-	-	-	1.000	X
13	13	Beam	Angle	0.00	1	1	-	-	-	-	1.000	X
14	14	Beam	Angle	0.00	1	1	-	-	-	-	1.000	X
15	15	Beam	Angle	0.00	2	2	-	-	-	-	1.000	Y
16	16	Beam	Angle	0.00	2	2	-	-	-	-	1.000	Y
17	17	Beam	Angle	0.00	2	2	-	-	-	-	1.000	Y
18	18	Beam	Angle	0.00	2	2	-	-	-	-	1.000	Y
19	19	Beam	Angle	0.00	2	2	-	-	-	-	1.000	Y
20	20	Beam	Angle	0.00	2	2	-	-	-	-	1.000	Y
21	21	Beam	Angle	0.00	2	2	-	-	-	-	1.000	Y
22	22	Beam	Angle	0.00	2	2	-	-	-	-	1.000	Y
23	23	Beam	Angle	0.00	2	2	-	-	-	-	1.000	Y
24	24	Beam	Angle	0.00	2	2	-	-	-	-	1.000	Y

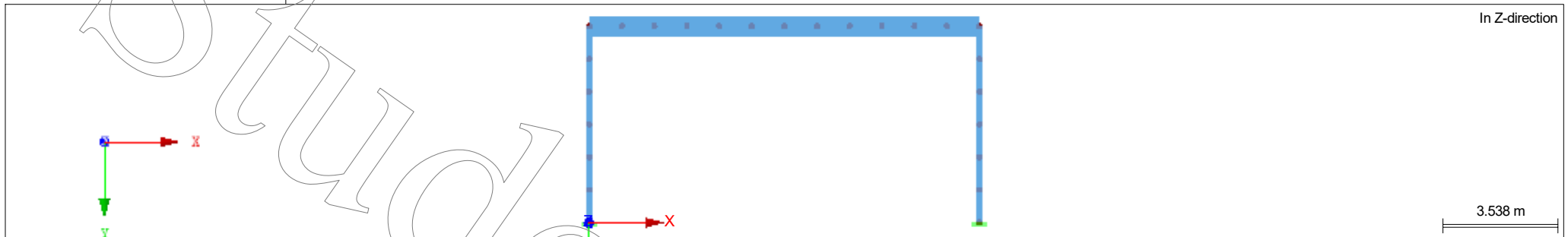
MODEL

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MODEL



2.1 LOAD CASES

Load Case	Load Case Description	EN 1990 SFS Action Category	Active	Self-Weight - Factor in Direction		
				X	Y	Z
LC1	Self-weight	Permanent	<input checked="" type="checkbox"/>	0.000	1.000	0.000
LC2	Wind	Wind	<input type="checkbox"/>			
LC3	Snow	Snow - $s-k < 2.75 \text{ kN/m}^2$	<input type="checkbox"/>			

2.1.1 LOAD CASES - CALCULATION PARAMETERS

Load Case	Load Case Description	Calculation Parameters
LC1	Self-weight	Method of analysis : <input checked="" type="radio"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="radio"/> Newton-Raphson Activate stiffness factors of: : <input checked="" type="checkbox"/> Cross-sections (factor for J, I _y , I _z , A, A _y , A _z) : <input checked="" type="checkbox"/> Members (factor for GJ, E _{I_y} , E _{I_z} , EA, GA _y , GA _z)
LC2	Wind	Method of analysis : <input checked="" type="radio"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="radio"/> Newton-Raphson Activate stiffness factors of: : <input checked="" type="checkbox"/> Cross-sections (factor for J, I _y , I _z , A, A _y , A _z) : <input checked="" type="checkbox"/> Members (factor for GJ, E _{I_y} , E _{I_z} , EA, GA _y , GA _z)
LC3	Snow	Method of analysis : <input checked="" type="radio"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="radio"/> Newton-Raphson Activate stiffness factors of: : <input checked="" type="checkbox"/> Cross-sections (factor for J, I _y , I _z , A, A _y , A _z) : <input checked="" type="checkbox"/> Members (factor for GJ, E _{I_y} , E _{I_z} , EA, GA _y , GA _z)

2.5 LOAD COMBINATIONS

Load Combin.	DS	Load Combination Description	No.	Factor	Load Case
CO1	ULS'	1.35G	1	1.35	LC1 Self-weight
CO2	ULS'	1.15G + 1.5Q _w	1	1.15	LC1 Self-weight
			2	1.50	LC2 Wind



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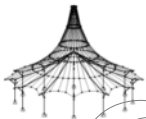
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2.5 LOAD COMBINATIONS

Load Combin.	DS	Load Combination Description	No.	Factor	Load Case
CO3	ULS'	1.15G + 1.5Qw + 1.05Qs	1	1.15	LC1 Self-weight
			2	1.50	LC2 Wind
			3	1.05	LC3 Snow
CO4	ULS'	1.15G + 1.5Qs	1	1.15	LC1 Self-weight
			2	1.50	LC3 Snow
CO5	ULS'	1.15G + 0.9Qw + 1.5Qs	1	1.15	LC1 Self-weight
			2	0.90	LC2 Wind
			3	1.50	LC3 Snow
CO6	S Ch	G	1	1.00	LC1 Self-weight
CO7	S Ch	G + Qw	1	1.00	LC1 Self-weight
			2	1.00	LC2 Wind
CO8	S Ch	G + Qw + 0.7Qs	1	1.00	LC1 Self-weight
			2	1.00	LC2 Wind
			3	0.70	LC3 Snow
CO9	S Ch	G + Qs	1	1.00	LC1 Self-weight
			2	1.00	LC3 Snow
CO10	S Ch	G + 0.6Qw + Qs	1	1.00	LC1 Self-weight
			2	0.60	LC2 Wind
			3	1.00	LC3 Snow
CO11	S Fr	G	1	1.00	LC1 Self-weight
CO12	S Fr	G + 0.2Qw	1	1.00	LC1 Self-weight
			2	0.20	LC2 Wind
CO13	S Fr	G + 0.2Qw + 0.2Qs	1	1.00	LC1 Self-weight
			2	0.20	LC2 Wind
			3	0.20	LC3 Snow
CO14	S Fr	G + 0.4Qs	1	1.00	LC1 Self-weight
			2	0.40	LC3 Snow
CO15	S Qp	G	1	1.00	LC1 Self-weight
CO16	S Qp	G + 0.2Qs	1	1.00	LC1 Self-weight
			2	0.20	LC3 Snow
CO17		1.35G + 1.5Qw + 1.05Qs	1	1.35	LC1 Self-weight
			2	1.50	LC2 Wind
			3	1.05	LC3 Snow

2.5.2 LOAD COMBINATIONS - CALCULATION PARAMETERS

Load Combin.	Description	Calculation Parameters
CO1	1.35G	Method of analysis : <input checked="" type="radio"/> Second order analysis (P-Delta)
		Method for solving system of nonlinear algebraic equations : <input checked="" type="radio"/> Picard
		Options : <input checked="" type="checkbox"/> Consider favorable effects due to tension
		: <input checked="" type="checkbox"/> Refer internal forces to deformed system for:
		: <input checked="" type="checkbox"/> Normal forces N
		: <input checked="" type="checkbox"/> Shear forces V _y and V _z
		: <input checked="" type="checkbox"/> Moments M _y , M _z and M _T
		: <input checked="" type="checkbox"/> Materials (partial factor γ _M)
		: <input checked="" type="checkbox"/> Cross-sections (factor for J, I _y , I _z , A, A _y , A _z)
		: <input checked="" type="checkbox"/> Members (factor for GJ, EI _y , EI _z , EA, GA _y , GA _z)
		Activate stiffness factors of: : <input checked="" type="checkbox"/> Materials (partial factor γ _M)
		: <input checked="" type="checkbox"/> Cross-sections (factor for J, I _y , I _z , A, A _y , A _z)
		: <input checked="" type="checkbox"/> Members (factor for GJ, EI _y , EI _z , EA, GA _y , GA _z)
		Method of analysis : <input checked="" type="radio"/> Second order analysis (P-Delta)
CO2	1.15G + 1.5Qw	Method for solving system of nonlinear algebraic equations : <input checked="" type="radio"/> Picard
		Options : <input checked="" type="checkbox"/> Consider favorable effects due to tension
		: <input checked="" type="checkbox"/> Refer internal forces to deformed system for:
		: <input checked="" type="checkbox"/> Normal forces N



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2.5.2 LOAD COMBINATIONS - CALCULATION PARAMETERS

Load Combin.	Description	Calculation Parameters
		<input checked="" type="checkbox"/> Shear forces V_y and V_z <input checked="" type="checkbox"/> Moments M_y , M_z and M_T
	Activate stiffness factors of:	<input checked="" type="checkbox"/> Materials (partial factor γ_M) <input checked="" type="checkbox"/> Cross-sections (factor for J , I_y , I_z , A , A_y , A_z) <input checked="" type="checkbox"/> Members (factor for GJ , EI_y , EI_z , EA , GA_y , GA_z)
CO3	$1.15G + 1.5Q_w + 1.05Q_s$	Method of analysis Method for solving system of nonlinear algebraic equations Options <input checked="" type="checkbox"/> Consider favorable effects due to tension Refer internal forces to deformed system for: <input checked="" type="checkbox"/> Normal forces N <input checked="" type="checkbox"/> Shear forces V_y and V_z <input checked="" type="checkbox"/> Moments M_y , M_z and M_T Activate stiffness factors of: <input checked="" type="checkbox"/> Materials (partial factor γ_M) <input checked="" type="checkbox"/> Cross-sections (factor for J , I_y , I_z , A , A_y , A_z) <input checked="" type="checkbox"/> Members (factor for GJ , EI_y , EI_z , EA , GA_y , GA_z)
CO4	$1.15G + 1.5Q_s$	Method of analysis Method for solving system of nonlinear algebraic equations Options <input checked="" type="checkbox"/> Consider favorable effects due to tension Refer internal forces to deformed system for: <input checked="" type="checkbox"/> Normal forces N <input checked="" type="checkbox"/> Shear forces V_y and V_z <input checked="" type="checkbox"/> Moments M_y , M_z and M_T Activate stiffness factors of: <input checked="" type="checkbox"/> Materials (partial factor γ_M) <input checked="" type="checkbox"/> Cross-sections (factor for J , I_y , I_z , A , A_y , A_z) <input checked="" type="checkbox"/> Members (factor for GJ , EI_y , EI_z , EA , GA_y , GA_z)
CO5	$1.15G + 0.9Q_w + 1.5Q_s$	Method of analysis Method for solving system of nonlinear algebraic equations Options <input checked="" type="checkbox"/> Consider favorable effects due to tension Refer internal forces to deformed system for: <input checked="" type="checkbox"/> Normal forces N <input checked="" type="checkbox"/> Shear forces V_y and V_z <input checked="" type="checkbox"/> Moments M_y , M_z and M_T Activate stiffness factors of: <input checked="" type="checkbox"/> Materials (partial factor γ_M) <input checked="" type="checkbox"/> Cross-sections (factor for J , I_y , I_z , A , A_y , A_z) <input checked="" type="checkbox"/> Members (factor for GJ , EI_y , EI_z , EA , GA_y , GA_z)
CO6	G	Method of analysis Method for solving system of nonlinear algebraic equations Options <input checked="" type="checkbox"/> Consider favorable effects due to tension Refer internal forces to deformed system for: <input checked="" type="checkbox"/> Normal forces N <input checked="" type="checkbox"/> Shear forces V_y and V_z <input checked="" type="checkbox"/> Moments M_y , M_z and M_T Activate stiffness factors of: <input checked="" type="checkbox"/> Materials (partial factor γ_M) <input checked="" type="checkbox"/> Cross-sections (factor for J , I_y , I_z , A , A_y , A_z) <input checked="" type="checkbox"/> Members (factor for GJ , EI_y , EI_z , EA , GA_y , GA_z)
CO7	G + Q_w	Method of analysis Method for solving system of nonlinear algebraic equations Options <input checked="" type="checkbox"/> Consider favorable effects due to tension Refer internal forces to deformed system for: <input checked="" type="checkbox"/> Normal forces N <input checked="" type="checkbox"/> Shear forces V_y and V_z



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2.5.2 LOAD COMBINATIONS - CALCULATION PARAMETERS

Load Combin.	Description	Calculation Parameters
		<input checked="" type="checkbox"/> Moments M_y , M_z and M_T
	Activate stiffness factors of:	<input checked="" type="checkbox"/> Materials (partial factor γ_M) <input checked="" type="checkbox"/> Cross-sections (factor for J , I_y , I_z , A , A_y , A_z) <input checked="" type="checkbox"/> Members (factor for GJ , EI_y , EI_z , EA , GA_y , GA_z)
CO8	$G + Q_w + 0.7Q_s$	<input checked="" type="checkbox"/> Method of analysis <input checked="" type="checkbox"/> Method for solving system of nonlinear algebraic equations <input checked="" type="checkbox"/> Options <input checked="" type="checkbox"/> Second order analysis (P-Delta) <input checked="" type="checkbox"/> Picard
		<input checked="" type="checkbox"/> Consider favorable effects due to tension <input checked="" type="checkbox"/> Refer internal forces to deformed system for: <input checked="" type="checkbox"/> Normal forces N <input checked="" type="checkbox"/> Shear forces V_y and V_z <input checked="" type="checkbox"/> Moments M_y , M_z and M_T
	Activate stiffness factors of:	<input checked="" type="checkbox"/> Materials (partial factor γ_M) <input checked="" type="checkbox"/> Cross-sections (factor for J , I_y , I_z , A , A_y , A_z) <input checked="" type="checkbox"/> Members (factor for GJ , EI_y , EI_z , EA , GA_y , GA_z)
CO9	$G + Q_s$	<input checked="" type="checkbox"/> Method of analysis <input checked="" type="checkbox"/> Method for solving system of nonlinear algebraic equations <input checked="" type="checkbox"/> Options <input checked="" type="checkbox"/> Second order analysis (P-Delta) <input checked="" type="checkbox"/> Picard
		<input checked="" type="checkbox"/> Consider favorable effects due to tension <input checked="" type="checkbox"/> Refer internal forces to deformed system for: <input checked="" type="checkbox"/> Normal forces N <input checked="" type="checkbox"/> Shear forces V_y and V_z <input checked="" type="checkbox"/> Moments M_y , M_z and M_T
	Activate stiffness factors of:	<input checked="" type="checkbox"/> Materials (partial factor γ_M) <input checked="" type="checkbox"/> Cross-sections (factor for J , I_y , I_z , A , A_y , A_z) <input checked="" type="checkbox"/> Members (factor for GJ , EI_y , EI_z , EA , GA_y , GA_z)
CO10	$G + 0.6Q_w + Q_s$	<input checked="" type="checkbox"/> Method of analysis <input checked="" type="checkbox"/> Method for solving system of nonlinear algebraic equations <input checked="" type="checkbox"/> Options <input checked="" type="checkbox"/> Second order analysis (P-Delta) <input checked="" type="checkbox"/> Picard
		<input checked="" type="checkbox"/> Consider favorable effects due to tension <input checked="" type="checkbox"/> Refer internal forces to deformed system for: <input checked="" type="checkbox"/> Normal forces N <input checked="" type="checkbox"/> Shear forces V_y and V_z <input checked="" type="checkbox"/> Moments M_y , M_z and M_T
	Activate stiffness factors of:	<input checked="" type="checkbox"/> Materials (partial factor γ_M) <input checked="" type="checkbox"/> Cross-sections (factor for J , I_y , I_z , A , A_y , A_z) <input checked="" type="checkbox"/> Members (factor for GJ , EI_y , EI_z , EA , GA_y , GA_z)
CO11	G	<input checked="" type="checkbox"/> Method of analysis <input checked="" type="checkbox"/> Method for solving system of nonlinear algebraic equations <input checked="" type="checkbox"/> Options <input checked="" type="checkbox"/> Second order analysis (P-Delta) <input checked="" type="checkbox"/> Picard
		<input checked="" type="checkbox"/> Consider favorable effects due to tension <input checked="" type="checkbox"/> Refer internal forces to deformed system for: <input checked="" type="checkbox"/> Normal forces N <input checked="" type="checkbox"/> Shear forces V_y and V_z <input checked="" type="checkbox"/> Moments M_y , M_z and M_T
	Activate stiffness factors of:	<input checked="" type="checkbox"/> Materials (partial factor γ_M) <input checked="" type="checkbox"/> Cross-sections (factor for J , I_y , I_z , A , A_y , A_z) <input checked="" type="checkbox"/> Members (factor for GJ , EI_y , EI_z , EA , GA_y , GA_z)
CO12	$G + 0.2Q_w$	<input checked="" type="checkbox"/> Method of analysis <input checked="" type="checkbox"/> Method for solving system of nonlinear algebraic equations <input checked="" type="checkbox"/> Options <input checked="" type="checkbox"/> Second order analysis (P-Delta) <input checked="" type="checkbox"/> Picard
		<input checked="" type="checkbox"/> Consider favorable effects due to tension <input checked="" type="checkbox"/> Refer internal forces to deformed system for: <input checked="" type="checkbox"/> Normal forces N <input checked="" type="checkbox"/> Shear forces V_y and V_z <input checked="" type="checkbox"/> Moments M_y , M_z and M_T



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2.5.2 LOAD COMBINATIONS - CALCULATION PARAMETERS

Load Combin.	Description	Calculation Parameters
CO13	G + 0.2Qw + 0.2Qs	Activate stiffness factors of: : <input checked="" type="checkbox"/> Materials (partial factor γ_M) : <input checked="" type="checkbox"/> Cross-sections (factor for J, I _y , I _z , A, A _y , A _z) : <input checked="" type="checkbox"/> Members (factor for GJ, E _{Iy} , E _{Iz} , EA, GA _y , GA _z)
		Method of analysis Method for solving system of nonlinear algebraic equations Options : <input checked="" type="checkbox"/> Second order analysis (P-Delta) : <input checked="" type="checkbox"/> Picard
CO14	G + 0.4Qs	Consider favorable effects due to tension Refer internal forces to deformed system for: : <input checked="" type="checkbox"/> Normal forces N : <input checked="" type="checkbox"/> Shear forces V _y and V _z : <input checked="" type="checkbox"/> Moments M _y , M _z and M _T Activate stiffness factors of: : <input checked="" type="checkbox"/> Materials (partial factor γ_M) : <input checked="" type="checkbox"/> Cross-sections (factor for J, I _y , I _z , A, A _y , A _z) : <input checked="" type="checkbox"/> Members (factor for GJ, E _{Iy} , E _{Iz} , EA, GA _y , GA _z)
		Method of analysis Method for solving system of nonlinear algebraic equations Options : <input checked="" type="checkbox"/> Second order analysis (P-Delta) : <input checked="" type="checkbox"/> Picard
CO15	G	Consider favorable effects due to tension Refer internal forces to deformed system for: : <input checked="" type="checkbox"/> Normal forces N : <input checked="" type="checkbox"/> Shear forces V _y and V _z : <input checked="" type="checkbox"/> Moments M _y , M _z and M _T Activate stiffness factors of: : <input checked="" type="checkbox"/> Materials (partial factor γ_M) : <input checked="" type="checkbox"/> Cross-sections (factor for J, I _y , I _z , A, A _y , A _z) : <input checked="" type="checkbox"/> Members (factor for GJ, E _{Iy} , E _{Iz} , EA, GA _y , GA _z)
		Method of analysis Method for solving system of nonlinear algebraic equations Options : <input checked="" type="checkbox"/> Second order analysis (P-Delta) : <input checked="" type="checkbox"/> Picard
CO16	G + 0.2Qs	Consider favorable effects due to tension Refer internal forces to deformed system for: : <input checked="" type="checkbox"/> Normal forces N : <input checked="" type="checkbox"/> Shear forces V _y and V _z : <input checked="" type="checkbox"/> Moments M _y , M _z and M _T Activate stiffness factors of: : <input checked="" type="checkbox"/> Materials (partial factor γ_M) : <input checked="" type="checkbox"/> Cross-sections (factor for J, I _y , I _z , A, A _y , A _z) : <input checked="" type="checkbox"/> Members (factor for GJ, E _{Iy} , E _{Iz} , EA, GA _y , GA _z)
		Method of analysis Method for solving system of nonlinear algebraic equations Options : <input checked="" type="checkbox"/> Second order analysis (P-Delta) : <input checked="" type="checkbox"/> Picard
CO17	1.35G + 1.5Qw + 1.05Qs	Consider favorable effects due to tension Refer internal forces to deformed system for: : <input checked="" type="checkbox"/> Normal forces N : <input checked="" type="checkbox"/> Shear forces V _y and V _z : <input checked="" type="checkbox"/> Moments M _y , M _z and M _T Activate stiffness factors of: : <input checked="" type="checkbox"/> Materials (partial factor γ_M)
		Method of analysis Method for solving system of nonlinear algebraic equations Options : <input checked="" type="checkbox"/> Second order analysis (P-Delta) : <input checked="" type="checkbox"/> Picard



LOADS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

2.5.2 LOAD COMBINATIONS - CALCULATION PARAMETERS

Load Combin.	Description	Calculation Parameters
		: <input checked="" type="checkbox"/> Cross-sections (factor for J, I _y , I _z , A, A _y , A _z)
		: <input checked="" type="checkbox"/> Members (factor for GJ, EI _y , EI _z , EA, GA _y , GA _z)

2.7 RESULT COMBINATIONS

Result Combin.	Description	Loading
RC1	ULS (STR/GEO) - Permanent / transient - Eq. 6.10a and 6.10b	CO1/p or to CO5
RC2	SLS - Characteristic	CO6/p or to CO10
RC3	SLS - Frequent	CO11/p or to CO14
RC4	SLS - Quasi-permanent	CO15/p or CO16/p

LC2
Wind

3.2 MEMBER LOADS

LC2: Wind

No.	Reference to	On Members No.	Load Type	Load Distribution	Load Direction	Reference Length	Symbol	Load Parameters Value	Unit
1	Members	1,15-19	Force	Uniform	XP	Projected Length	p	1.000	kN/m

3.2/1 MEMBER LOADS - LOAD ECCENTRICITY

LC2: Wind

No.	Reference to	On Members No.	Absolute Offset		Absolute Offset		Relative Offset		Relative Offset	
			Mbr. Start	Mbr. Start	Mbr. End	Mbr. End	Mbr. Start	Mbr. Start	Mbr. End	Mbr. End
			e _y [m]	e _z [m]	e _y [m]	e _z [m]	y-Axis	z-Axis	y-Axis	z-Axis
1	Members	1,15-19	0.000	0.000	0.000	0.000	Middle	Middle	Middle	Middle

LC3
Snow

3.2 MEMBER LOADS

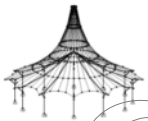
LC3: Snow

No.	Reference to	On Members No.	Load Type	Load Distribution	Load Direction	Reference Length	Symbol	Load Parameters Value	Unit
1	Members	2,4-14	Force	Uniform	YP	Projected Length	p	4.000	kN/m

3.2/1 MEMBER LOADS - LOAD ECCENTRICITY

LC3: Snow

No.	Reference to	On Members No.	Absolute Offset		Absolute Offset		Relative Offset		Relative Offset	
			Mbr. Start	Mbr. Start	Mbr. End	Mbr. End	Mbr. Start	Mbr. Start	Mbr. End	Mbr. End
			e _y [m]	e _z [m]	e _y [m]	e _z [m]	y-Axis	z-Axis	y-Axis	z-Axis
1	Members	2,4-14	0.000	0.000	0.000	0.000	Middle	Middle	Middle	Middle



LOADS

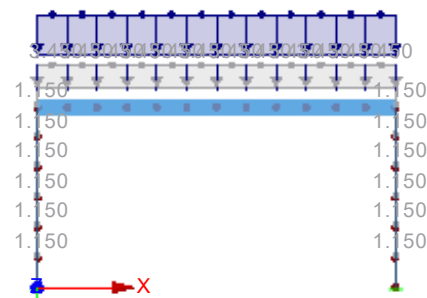
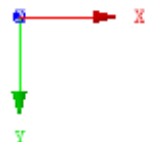
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■ CO4: 1.15G + 1.5QS

CO4 : 1.15G + 1.5Qs
Loads [kN/m]



In Z-direction

5.071 m



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Load Case LC1 - Self-weight			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	48.00	kN	
Sum of support reactions in Y	48.00	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.000	kNm	At center of gravity of model (X:6.000, Y:-5.250, Z:0.000 m)
Resultant of reactions about Y	0.000	kNm	At center of gravity of model
Resultant of reactions about Z	0.000	kNm	At center of gravity of model
Max. displacement in X	-1.29	mm	Member No. 17, x: 0.000 m
Max. displacement in Y	5.73	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	5.73	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrad	
Max. rotation about Y	0.0	mrad	
Max. rotation about Z	1.5	mrad	Member No. 2, x: 0.700 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	Linear		Geometrically linear analysis
Reduction of stiffness			Cross-sections, Members, Surfaces
Number of load increments	1		
Number of iterations	1		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	2.522E+1095		
Infinity Norm	1.728E+10		
Load Case LC2 - Wind			
Sum of loads in X	6.00	kN	
Sum of support reactions in X	6.00	kN	Deviation 0.00%
Sum of loads in Y	0.00	kN	
Sum of support reactions in Y	0.00	kN	
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.000	kNm	At center of gravity of model (X:6.000, Y:-5.250, Z:0.000 m)
Resultant of reactions about Y	0.000	kNm	At center of gravity of model
Resultant of reactions about Z	-13.500	kNm	At center of gravity of model
Max. displacement in X	5.78	mm	Member No. 2, x: 1.000 m
Max. displacement in Y	-0.20	mm	Member No. 10, x: 0.300 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	5.79	mm	Member No. 10, x: 0.900 m
Max. rotation about X	0.0	mrad	
Max. rotation about Y	0.0	mrad	
Max. rotation about Z	1.6	mrad	Member No. 16, x: 0.800 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	Linear		Geometrically linear analysis
Reduction of stiffness			Cross-sections, Members, Surfaces
Number of load increments	1		
Number of iterations	1		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	2.522E+1095		
Infinity Norm	1.728E+10		
Load Case LC3 - Snow			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	48.00	kN	



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Sum of support reactions in Y	48.00	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.000	kNm	At center of gravity of model (X:6.000, Y:-5.250, Z:0.000 m)
Resultant of reactions about Y	0.000	kNm	At center of gravity of model
Resultant of reactions about Z	0.000	kNm	At center of gravity of model
Max. displacement in X	-1.72	mm	Member No. 17, x: 0.000 m
Max. displacement in Y	7.62	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	7.62	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	1.9	mrاد	Member No. 2, x: 0.700 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	Linear		Geometrically linear analysis
Reduction of stiffness			Cross-sections, Members, Surfaces
Number of load increments	1		
Number of iterations	1		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	2.522E+1095		
Infinity Norm	1.728E+10		
Load Combination CO1 - 1.35G			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	64.80	kN	
Sum of support reactions in Y	64.80	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	0.0	kNm	At center of gravity of model
Max. displacement in X	-1.75	mm	Member No. 17, x: 0.000 m
Max. displacement in Y	7.74	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	7.74	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	2.0	mrاد	Member No. 2, x: 0.700 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness			Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	2.067E+1095		
Infinity Norm	1.728E+10		
Load Combination CO2 - 1.15G + 1.5Qw			
Sum of loads in X	9.00	kN	
Sum of support reactions in X	9.00	kN	Deviation 0.00%
Sum of loads in Y	55.20	kN	
Sum of support reactions in Y	55.20	kN	Deviation 0.00%



RESULTS

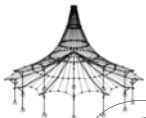
Project: Assignment Week 6

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4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	-19.8	kNm	At center of gravity of model
Max. displacement in X	9.32	mm	Member No. 24, x: 0.300 m
Max. displacement in Y	6.32	mm	Member No. 8, x: 0.100 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	10.87	mm	Member No. 8, x: 0.100 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	2.6	mrاد	Member No. 21, x: 0.700 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness	<input checked="" type="checkbox"/>		Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	2.118E+1095		
Infinity Norm	1.728E+10		
Load Combination CO3 - 1.15G + 1.5Qw + 1.05Qs			
Sum of loads in X	9.00	kN	
Sum of support reactions in X	9.00	kN	Deviation 0.00%
Sum of loads in Y	105.60	kN	
Sum of support reactions in Y	105.60	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	-19.4	kNm	At center of gravity of model
Max. displacement in X	10.82	mm	Member No. 23, x: 0.900 m
Max. displacement in Y	14.34	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	16.94	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	3.7	mrاد	Member No. 2, x: 0.800 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness	<input checked="" type="checkbox"/>		Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	1.751E+1095		
Infinity Norm	1.728E+10		
Load Combination CO4 - 1.15G + 1.5Qs			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Sum of loads in Y	127.20	kN	
Sum of support reactions in Y	127.20	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	0.0	kNm	At center of gravity of model
Max. displacement in X	-4.10	mm	Member No. 17, x: 0.000 m
Max. displacement in Y	18.06	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	18.06	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrad	
Max. rotation about Y	0.0	mrad	
Max. rotation about Z	4.6	mrad	Member No. 2, x: 0.700 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness			Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	1.619E+1095		
Infinity Norm	1.728E+10		

Load Combination CO5 - 1.15G + 0.9Qw + 1.5Qs

Sum of loads in X	5.40	kN	
Sum of support reactions in X	5.40	kN	Deviation 0.00%
Sum of loads in Y	127.20	kN	
Sum of support reactions in Y	127.20	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	-11.5	kNm	At center of gravity of model
Max. displacement in X	8.41	mm	Member No. 23, x: 0.600 m
Max. displacement in Y	17.89	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	18.71	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrad	
Max. rotation about Y	0.0	mrad	
Max. rotation about Z	4.6	mrad	Member No. 2, x: 0.800 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness			Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	1.613E+1095		
Infinity Norm	1.728E+10		

Load Combination CO6 - G



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	48.00	kN	
Sum of support reactions in Y	48.00	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	0.0	kNm	At center of gravity of model
Max. displacement in X	-1.29	mm	Member No. 17, x: 0.000 m
Max. displacement in Y	5.73	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	5.73	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	1.5	mrاد	Member No. 2, x: 0.700 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order	-	Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>	-	N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness	<input checked="" type="checkbox"/>	-	Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>	-	
Divide results by CO factor	<input type="checkbox"/>	-	
Number of load increments	1	-	
Number of iterations	2	-	
Maximum value of element of stiffness matrix on diagonal	8.64E+09	-	
Minimum value of element of stiffness matrix on diagonal	6.752E+06	-	
Stiffness matrix determinant	2.178E+1095	-	
Infinity Norm	1.728E+10	-	

Load Combination CO7 - G + Qw			
Sum of loads in X	6.00	kN	
Sum of support reactions in X	6.00	kN	Deviation 0.00%
Sum of loads in Y	48.00	kN	
Sum of support reactions in Y	48.00	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	-13.3	kNm	At center of gravity of model
Max. displacement in X	6.40	mm	Member No. 24, x: 0.200 m
Max. displacement in Y	5.55	mm	Member No. 8, x: 0.100 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	8.09	mm	Member No. 8, x: 0.100 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	1.8	mrاد	Member No. 21, x: 0.600 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order	-	Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>	-	N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness	<input checked="" type="checkbox"/>	-	Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>	-	
Divide results by CO factor	<input type="checkbox"/>	-	
Number of load increments	1	-	
Number of iterations	2	-	
Maximum value of element of stiffness matrix on diagonal	8.64E+09	-	
Minimum value of element of stiffness matrix on diagonal	6.752E+06	-	
Stiffness matrix determinant	2.170E+1095	-	
Infinity Norm	1.728E+10	-	



RESULTS

Project: Assignment Week 6

Model: B3_Frame

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4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Load Combination CO8 - G + Qw + 0.7Qs			
Sum of loads in X	6.00	kN	
Sum of support reactions in X	6.00	kN	Deviation 0.00%
Sum of loads in Y	81.60	kN	
Sum of support reactions in Y	81.60	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	-13.0	kNm	At center of gravity of model
Max. displacement in X	7.41	mm	Member No. 23, x: 0.800 m
Max. displacement in Y	10.90	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	12.42	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	2.8	mrاد	Member No. 2, x: 0.800 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness	<input checked="" type="checkbox"/>		Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	1.915E+1095		
Infinity Norm	1.728E+10		
Load Combination CO9 - G + Qs			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	96.00	kN	
Sum of support reactions in Y	96.00	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	0.0	kNm	At center of gravity of model
Max. displacement in X	-3.03	mm	Member No. 17, x: 0.000 m
Max. displacement in Y	13.37	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	13.37	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	3.4	mrاد	Member No. 2, x: 0.700 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness	<input checked="" type="checkbox"/>		Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		



Project: Assignment Week 6

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4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Stiffness matrix determinant	1.820E+1095		
Infinity Norm	1.728E+10		
Load Combination CO10 - G + 0.6Qw + Qs			
Sum of loads in X	3.60	kN	
Sum of support reactions in X	3.60	kN	Deviation 0.00%
Sum of loads in Y	96.00	kN	
Sum of support reactions in Y	96.00	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	-7.8	kNm	At center of gravity of model
Max. displacement in X	5.85	mm	Member No. 23, x: 0.500 m
Max. displacement in Y	13.26	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	13.74	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	3.4	mrاد	Member No. 2, x: 0.800 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness	<input checked="" type="checkbox"/>		Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	1.816E+1095		
Infinity Norm	1.728E+10		
Load Combination CO11 - G			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	48.00	kN	
Sum of support reactions in Y	48.00	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	0.0	kNm	At center of gravity of model
Max. displacement in X	-1.29	mm	Member No. 17, x: 0.000 m
Max. displacement in Y	5.73	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	5.73	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	1.5	mrاد	Member No. 2, x: 0.700 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness	<input checked="" type="checkbox"/>		Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		



Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	2.178E+1095		
Infinity Norm	1.728E+10		
Load Combination CO12 - G + 0.2Qw			
Sum of loads in X	1.20	kN	
Sum of support reactions in X	1.20	kN	Deviation 0.00%
Sum of loads in Y	48.00	kN	
Sum of support reactions in Y	48.00	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	-2.7	kNm	At center of gravity of model
Max. displacement in X	2.20	mm	Member No. 23, x: 0.400 m
Max. displacement in Y	5.70	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	5.82	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	1.5	mrاد	Member No. 2, x: 0.800 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness	<input checked="" type="checkbox"/>		Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	2.177E+1095		
Infinity Norm	1.728E+10		
Load Combination CO13 - G + 0.2Qw + 0.2Qs			
Sum of loads in X	1.20	kN	
Sum of support reactions in X	1.20	kN	Deviation 0.00%
Sum of loads in Y	57.60	kN	
Sum of support reactions in Y	57.60	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	-2.6	kNm	At center of gravity of model
Max. displacement in X	2.54	mm	Member No. 23, x: 0.400 m
Max. displacement in Y	7.22	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	7.32	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	1.8	mrاد	Member No. 2, x: 0.800 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness	<input checked="" type="checkbox"/>		Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	2.101E+1095		
Infinity Norm	1.728E+10		
Load Combination CO14 - G + 0.4Qs			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	67.20	kN	
Sum of support reactions in Y	67.20	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	0.0	kNm	At center of gravity of model
Max. displacement in X	-1.99	mm	Member No. 17, x: 0.000 m
Max. displacement in Y	8.79	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	8.79	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrad	
Max. rotation about Y	0.0	mrad	
Max. rotation about Z	2.2	mrad	Member No. 2, x: 0.700 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness			Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	2.029E+1095		
Infinity Norm	1.728E+10		
Load Combination CO15 - G			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	48.00	kN	
Sum of support reactions in Y	48.00	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	0.0	kNm	At center of gravity of model
Max. displacement in X	-1.29	mm	Member No. 17, x: 0.000 m
Max. displacement in Y	5.73	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	5.73	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrad	
Max. rotation about Y	0.0	mrad	
Max. rotation about Z	1.5	mrad	Member No. 2, x: 0.700 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness			Materials, Cross-sections, Members, Surfaces



RESULTS

Project: Assignment Week 6

Model: B3_Frame

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4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	2.178E+1095		
Infinity Norm	1.728E+10		
Load Combination CO16 - G + 0.2Qs			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	57.60	kN	
Sum of support reactions in Y	57.60	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	0.0	kNm	At center of gravity of model
Max. displacement in X	-1.64	mm	Member No. 17, x: 0.000 m
Max. displacement in Y	7.26	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	7.26	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	1.8	mrاد	Member No. 2, x: 0.700 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _t
Reduction of stiffness			Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	2.103E+1095		
Infinity Norm	1.728E+10		
Load Combination CO17 - 1.35G + 1.5Qw + 1.05Qs			
Sum of loads in X	9.00	kN	
Sum of support reactions in X	9.00	kN	Deviation 0.00%
Sum of loads in Y	115.20	kN	
Sum of support reactions in Y	115.20	kN	Deviation 0.00%
Sum of loads in Z	0.00	kN	
Sum of support reactions in Z	0.00	kN	
Resultant of reactions about X	0.0	kNm	At center of gravity of model (X:6.0, Y:-5.3, Z:0.0 m)
Resultant of reactions about Y	0.0	kNm	At center of gravity of model
Resultant of reactions about Z	-19.3	kNm	At center of gravity of model
Max. displacement in X	11.07	mm	Member No. 23, x: 0.900 m
Max. displacement in Y	15.49	mm	Member No. 8, x: 0.000 m
Max. displacement in Z	0.00	mm	
Max. vector displacement	17.94	mm	Member No. 8, x: 0.000 m
Max. rotation about X	0.0	mrاد	
Max. rotation about Y	0.0	mrاد	
Max. rotation about Z	4.0	mrاد	Member No. 2, x: 0.800 m
Maximum member strain	0.00000	-	Member No. 0, x: 0.000 m
Method of analysis	2nd Order		Second order analysis (Nonlinear, Timoshenko)



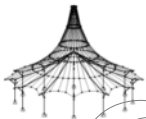
Project: Assignment Week 6

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4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Internal forces referred to deformed system for...	<input checked="" type="checkbox"/>		N, V _y , V _z , M _y , M _z , M _T
Reduction of stiffness	<input checked="" type="checkbox"/>		Materials, Cross-sections, Members, Surfaces
Consider favorable effects of tensile forces	<input checked="" type="checkbox"/>		
Divide results by CO factor	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	2		
Maximum value of element of stiffness matrix on diagonal	8.64E+09		
Minimum value of element of stiffness matrix on diagonal	6.752E+06		
Stiffness matrix determinant	1.697E+1095		
Infinity Norm	1.728E+10		
Summary			
Max. displacement in X	11.07	mm	CO17, Member No. 23, x: 0.900 m
Max. displacement in Y	18.06	mm	CO4, Member No. 8, x: 0.000 m
Max. displacement in Z	0.00		
Max. vector displacement	18.71	mm	CO5, Member No. 8, x: 0.000 m
Max. rotation about X	0.0		
Max. rotation about Y	0.0		
Max. rotation about Z	4.6	mrad	CO4, Member No. 2, x: 0.700 m
Other Settings:			
Number of 1D finite elements	24		
Number of 2D finite elements	0		
Number of 3D finite elements	0		
Number of FE mesh nodes	25		
Number of equations	150		
Internal forces referred to deformed system for...:	<input checked="" type="checkbox"/>		
Max. number of iterations	100		
Number of divisions for member results	10		
Division of cable/foundation/tapered members	10		
Number of member divisions for searching maximum values	10		
Subdivisions of FE mesh for graphical results	3		
Percentage of iterations according to Picard method in combination with Newton-Raphson method	5	%	
Options:			
Activate shear stiffness of members (Ay, Az)	<input checked="" type="checkbox"/>		
Activate member divisions for large deformation or post-critical analysis	<input checked="" type="checkbox"/>		
Activate entered stiffness modifications	<input checked="" type="checkbox"/>		
Ignore rotational degrees of freedom	<input type="checkbox"/>		
Check of critical forces of members	<input checked="" type="checkbox"/>		
Nonsymmetric direct solver if demanded by nonlinear model	<input type="checkbox"/>		
Method for the system of equations	Direct		
Plate bending theory	Mindlin		
Solver version	64-bit		
Precision and Tolerance:			
Change default setting	<input type="checkbox"/>		



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.1 NODES - SUPPORT FORCES

Node No.	LC/CO	Support Forces [kN]			Support Moments [kNm]			
		P_x	P_y	P_z	M_x	M_y	M_z	
1*	LC1	-24.00	-1.16	0.00	0.00	0.00	-2.31	Self-weight
	LC2	0.49	4.55	0.00	0.00	0.00	7.63	Wind
	LC3	-24.00	-1.54	0.00	0.00	0.00	-3.08	Snow
	CO1	-32.40	-1.56	0.00	0.00	0.00	-3.13	
	CO2	-26.84	5.50	0.00	0.00	0.00	8.91	
	CO3	-52.03	3.89	0.00	0.00	0.00	5.77	
	CO4	-63.60	-3.63	0.00	0.00	0.00	-7.35	
	CO5	-63.13	0.47	0.00	0.00	0.00	-0.29	
	CO6	-24.00	-1.15	0.00	0.00	0.00	-2.32	
	CO7	-23.50	3.39	0.00	0.00	0.00	5.39	
	CO8	-40.29	2.32	0.00	0.00	0.00	3.27	
	CO9	-48.00	-2.69	0.00	0.00	0.00	-5.43	
	CO10	-47.69	0.04	0.00	0.00	0.00	-0.76	
	CO11	-24.00	-1.15	0.00	0.00	0.00	-2.32	
	CO12	-23.90	-0.25	0.00	0.00	0.00	-0.78	
	CO13	-28.70	-0.55	0.00	0.00	0.00	-1.39	
	CO14	-33.60	-1.77	0.00	0.00	0.00	-3.56	
	CO15	-24.00	-1.15	0.00	0.00	0.00	-2.32	
	CO16	-28.80	-1.46	0.00	0.00	0.00	-2.94	
	CO17	-56.82	3.66	0.00	0.00	0.00	5.32	
4*	LC1	24.00	-1.16	0.00	0.00	0.00	2.31	Self-weight
	LC2	0.49	-1.45	0.00	0.00	0.00	4.44	Wind
	LC3	24.00	-1.54	0.00	0.00	0.00	3.08	Snow
	CO1	32.40	-1.56	0.00	0.00	0.00	3.13	
	CO2	28.36	-3.50	0.00	0.00	0.00	9.44	
	CO3	53.57	-5.11	0.00	0.00	0.00	12.83	
	CO4	63.60	-3.63	0.00	0.00	0.00	7.35	
	CO5	64.07	-4.93	0.00	0.00	0.00	11.52	
	CO6	24.00	-1.15	0.00	0.00	0.00	2.32	
	CO7	24.50	-2.61	0.00	0.00	0.00	6.82	
	CO8	41.31	-3.68	0.00	0.00	0.00	9.05	
	CO9	48.00	-2.69	0.00	0.00	0.00	5.43	
	CO10	48.31	-3.56	0.00	0.00	0.00	8.18	
	CO11	24.00	-1.15	0.00	0.00	0.00	2.32	
	CO12	24.10	-1.45	0.00	0.00	0.00	3.22	
	CO13	28.90	-1.75	0.00	0.00	0.00	3.84	
	CO14	33.60	-1.77	0.00	0.00	0.00	3.56	
	CO15	24.00	-1.15	0.00	0.00	0.00	2.32	
	CO16	28.80	-1.46	0.00	0.00	0.00	2.94	
	CO17	58.38	-5.34	0.00	0.00	0.00	13.32	
	Σ Supp.	LC1	0.00	48.00	0.00	0.00		
	Σ Loads	LC1	0.00	48.00	0.00	0.00		
	Σ Supp.	LC2	6.00	0.00	0.00	0.00		
	Σ Loads	LC2	6.00	0.00	0.00	0.00		
	Σ Supp.	LC3	0.00	48.00	0.00	0.00		
	Σ Loads	LC3	0.00	48.00	0.00	0.00		
	Σ Supp.	CO1	0.00	64.80	0.00	0.00		
	Σ Supp.	CO1	0.00	64.80	0.00	0.00		
	Σ Supp.	CO2	9.00	55.20	0.00	0.00		
	Σ Supp.	CO2	9.00	55.20	0.00	0.00		
	Σ Supp.	CO3	9.00	105.60	0.00	0.00		
	Σ Supp.	CO3	9.00	105.60	0.00	0.00		
	Σ Supp.	CO4	0.00	127.20	0.00	0.00		
	Σ Supp.	CO4	0.00	127.20	0.00	0.00		
	Σ Supp.	CO5	5.40	127.20	0.00	0.00		
	Σ Supp.	CO5	5.40	127.20	0.00	0.00		
	Σ Supp.	CO6	0.00	48.00	0.00	0.00		
	Σ Supp.	CO6	0.00	48.00	0.00	0.00		



Project: Assignment Week 6

Model: B3_Frame

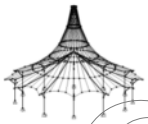
Date: 18/10/2021

4.1 NODES - SUPPORT FORCES

Node No.	LC/CO	Support Forces [kN]			Support Moments [kNm]		
		P_x	P_y	P_z	M_x	M_y	M_z
Σ Supp.	CO7	6.00	48.00	0.00			
Σ Supp.	CO7	6.00	48.00	0.00			
Σ Supp.	CO8	6.00	81.60	0.00			
Σ Supp.	CO8	6.00	81.60	0.00			
Σ Supp.	CO9	0.00	96.00	0.00			
Σ Supp.	CO9	0.00	96.00	0.00			
Σ Supp.	CO10	3.60	96.00	0.00			
Σ Supp.	CO10	3.60	96.00	0.00			
Σ Supp.	CO11	0.00	48.00	0.00			
Σ Supp.	CO11	0.00	48.00	0.00			
Σ Supp.	CO12	1.20	48.00	0.00			
Σ Supp.	CO12	1.20	48.00	0.00			
Σ Supp.	CO13	1.20	57.60	0.00			
Σ Supp.	CO13	1.20	57.60	0.00			
Σ Supp.	CO14	0.00	67.20	0.00			
Σ Supp.	CO14	0.00	67.20	0.00			
Σ Supp.	CO15	0.00	48.00	0.00			
Σ Supp.	CO15	0.00	48.00	0.00			
Σ Supp.	CO16	0.00	57.60	0.00			
Σ Supp.	CO16	0.00	57.60	0.00			
Σ Supp.	CO17	9.00	115.20	0.00			
Σ Supp.	CO17	9.00	115.20	0.00			

4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			
				N	V _y	V _z	M _T	M _y	M _z	
2	Section No. 1: T-Rectangle 0.6/0.2									
	LC1	5	0.000	-1.16	15.00	0.00	0.00	0.00	11.87	
		2	1.000	-1.16	18.00	0.00	0.00	0.00	-4.63	
	LC2	5	0.000	-1.45	-0.49	0.00	0.00	0.00	1.16	
		2	1.000	-1.45	-0.49	0.00	0.00	0.00	1.66	
	LC3	5	0.000	-1.54	20.00	0.00	0.00	0.00	15.82	
		2	1.000	-1.54	24.00	0.00	0.00	0.00	-6.18	
	CO1	5	0.000	-1.52	20.25	-0.00	0.00	0.00	16.06	
		2	1.000	-1.51	24.30	0.00	0.00	0.00	-6.22	
	CO2	5	0.000	-3.48	16.50	0.00	0.00	0.00	15.50	
		2	1.000	-3.47	19.95	0.00	0.00	0.00	-2.73	
	CO3	5	0.000	-4.98	37.49	0.00	0.00	0.00	32.30	
		2	1.000	-4.95	45.14	0.00	0.00	0.00	-9.02	
	CO4	5	0.000	-3.41	47.27	0.00	0.00	0.00	37.58	
		2	1.000	-3.37	56.72	0.00	0.00	0.00	-14.42	
	CO5	5	0.000	-4.72	46.80	0.00	0.00	0.00	38.74	
		2	1.000	-4.67	56.25	-0.00	0.00	-0.00	-12.79	
	CO6	5	0.000	-1.13	15.00	0.00	0.00	0.00	11.89	
		2	1.000	-1.13	18.00	0.00	0.00	0.00	-4.61	
	CO7	5	0.000	-2.59	14.50	-0.00	0.00	0.00	13.09	
		2	1.000	-2.58	17.50	0.00	0.00	0.00	-2.91	
	CO8	5	0.000	-3.60	28.50	-0.00	0.00	0.00	24.26	
		2	1.000	-3.58	34.30	0.00	0.00	0.00	-7.14	
	CO9	5	0.000	-2.57	35.01	0.00	0.00	0.00	27.80	
		2	1.000	-2.55	42.01	0.00	0.00	0.00	-10.71	
	CO10	5	0.000	-3.45	34.70	0.00	0.00	0.00	28.55	
		2	1.000	-3.42	41.70	0.00	0.00	0.00	-9.65	
CO11	5	0.000	-1.13	15.00	0.00	0.00	0.00	11.89		



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

■ 4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
2	CO11	2	1.000	-1.13	18.00	0.00	0.00	0.00	-4.61
	CO12	5	0.000	-1.42	14.90	0.00	0.00	0.00	12.13
		2	1.000	-1.42	17.90	0.00	0.00	0.00	-4.27
	CO13	5	0.000	-1.72	18.90	0.00	0.00	0.00	15.31
		2	1.000	-1.71	22.70	0.00	0.00	0.00	-5.50
	CO14	5	0.000	-1.72	23.00	-0.00	0.00	0.00	18.24
		2	1.000	-1.71	27.60	0.00	0.00	0.00	-7.06
	CO15	5	0.000	-1.13	15.00	0.00	0.00	0.00	11.89
		2	1.000	-1.13	18.00	0.00	0.00	0.00	-4.61
	CO16	5	0.000	-1.43	19.00	-0.00	0.00	0.00	15.06
		2	1.000	-1.42	22.80	-0.00	0.00	-0.00	-5.84
	CO17	5	0.000	-5.19	40.49	0.00	0.00	0.00	34.70
		2	1.000	-5.15	48.74	-0.00	0.00	-0.00	-9.91
	LC1	6	0.000	-1.16	12.00	0.00	0.00	0.00	25.37
		5	1.000	-1.16	15.00	0.00	0.00	0.00	11.87
4	LC2	6	0.000	-1.45	-0.49	0.00	0.00	0.00	0.67
		5	1.000	-1.45	-0.49	0.00	0.00	0.00	1.16
	LC3	6	0.000	-1.54	16.00	0.00	0.00	0.00	33.82
		5	1.000	-1.54	20.00	0.00	0.00	0.00	15.82
	CO1	6	0.000	-1.53	16.20	0.00	0.00	0.00	34.28
		5	1.000	-1.52	20.25	-0.00	0.00	0.00	16.06
	CO2	6	0.000	-3.49	13.05	0.00	0.00	0.00	30.27
		5	1.000	-3.48	16.50	0.00	0.00	0.00	15.50
	CO3	6	0.000	-5.02	29.84	-0.00	0.00	0.00	65.96
		5	1.000	-4.98	37.49	0.00	0.00	0.00	32.30
	CO4	6	0.000	-3.47	37.61	0.00	0.00	0.00	80.12
		5	1.000	-3.41	47.27	0.00	0.00	0.00	37.58
	CO5	6	0.000	-4.78	37.35	0.00	0.00	0.00	80.82
		5	1.000	-4.72	46.80	0.00	0.00	0.00	38.74
	CO6	6	0.000	-1.14	12.00	-0.00	0.00	0.00	25.39
		5	1.000	-1.13	15.00	0.00	0.00	0.00	11.89
	CO7	6	0.000	-2.59	11.50	0.00	0.00	0.00	26.09
		5	1.000	-2.59	14.50	-0.00	0.00	0.00	13.09
	CO8	6	0.000	-3.63	22.70	0.00	0.00	0.00	49.86
		5	1.000	-3.60	28.50	-0.00	0.00	0.00	24.26
	CO9	6	0.000	-2.61	28.01	0.00	0.00	0.00	59.30
		5	1.000	-2.57	35.01	0.00	0.00	0.00	27.80
	CO10	6	0.000	-3.48	27.70	0.00	0.00	0.00	59.76
		5	1.000	-3.45	34.70	0.00	0.00	0.00	28.55
	CO11	6	0.000	-1.14	12.00	-0.00	0.00	0.00	25.39
		5	1.000	-1.13	15.00	0.00	0.00	0.00	11.89
	CO12	6	0.000	-1.43	11.90	0.00	0.00	0.00	25.53
		5	1.000	-1.42	14.90	0.00	0.00	0.00	12.13
	CO13	6	0.000	-1.73	15.10	-0.00	0.00	0.00	32.31
		5	1.000	-1.72	18.90	0.00	0.00	0.00	15.31
	CO14	6	0.000	-1.73	18.40	0.00	0.00	0.00	38.95
		5	1.000	-1.72	23.00	-0.00	0.00	0.00	18.24
	CO15	6	0.000	-1.14	12.00	-0.00	0.00	0.00	25.39
		5	1.000	-1.13	15.00	0.00	0.00	0.00	11.89
	CO16	6	0.000	-1.44	15.20	0.00	0.00	0.00	32.17
		5	1.000	-1.43	19.00	-0.00	0.00	0.00	15.06
	CO17	6	0.000	-5.23	32.24	-0.00	0.00	0.00	71.07
		5	1.000	-5.19	40.49	0.00	0.00	0.00	34.70
5	LC1	7	0.000	-1.16	9.00	0.00	0.00	0.00	35.87
		6	1.000	-1.16	12.00	0.00	0.00	0.00	25.37
	LC2	7	0.000	-1.45	-0.49	0.00	0.00	0.00	0.18
		6	1.000	-1.45	-0.49	0.00	0.00	0.00	0.67
	LC3	7	0.000	-1.54	12.00	0.00	0.00	0.00	47.82



RESULTS

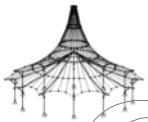
Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
5	LC3	6	1.000	-1.54	16.00	0.00	0.00	0.00	33.82
	CO1	7	0.000	-1.54	12.15	0.00	0.00	0.00	48.46
		6	1.000	-1.53	16.20	0.00	0.00	0.00	34.28
	CO2	7	0.000	-3.49	9.60	0.00	0.00	0.00	41.59
		6	1.000	-3.49	13.05	0.00	0.00	0.00	30.27
	CO3	7	0.000	-5.06	22.19	0.00	0.00	0.00	91.98
		6	1.000	-5.02	29.84	-0.00	0.00	0.00	65.96
	CO4	7	0.000	-3.53	28.36	0.00	0.00	0.00	113.21
		6	1.000	-3.47	37.81	0.00	0.00	0.00	80.12
	CO5	7	0.000	-4.84	27.90	0.00	0.00	0.00	113.44
		6	1.000	-4.78	37.35	0.00	0.00	0.00	80.82
	CO6	7	0.000	-1.15	9.00	0.00	0.00	0.00	35.89
		6	1.000	-1.14	12.00	-0.00	0.00	0.00	25.39
	CO7	7	0.000	-2.60	8.50	-0.00	0.00	0.00	36.09
		6	1.000	-2.59	11.50	0.00	0.00	0.00	26.09
	CO8	7	0.000	-3.65	16.90	0.00	0.00	0.00	69.66
		6	1.000	-3.63	22.70	0.00	0.00	0.00	49.86
	CO9	7	0.000	-2.64	21.01	-0.00	0.00	0.00	83.81
		6	1.000	-2.61	28.01	0.00	0.00	0.00	59.30
	CO10	7	0.000	-3.51	20.70	-0.00	0.00	0.00	83.96
		6	1.000	-3.48	27.70	0.00	0.00	0.00	59.76
	CO11	7	0.000	-1.15	9.00	0.00	0.00	0.00	35.89
		6	1.000	-1.14	12.00	-0.00	0.00	0.00	25.39
	CO12	7	0.000	-1.44	8.90	-0.00	0.00	0.00	35.93
		6	1.000	-1.43	11.90	0.00	0.00	0.00	25.53
6	CO13	7	0.000	-1.74	11.30	0.00	0.00	0.00	45.51
		6	1.000	-1.73	15.10	-0.00	0.00	0.00	32.31
	CO14	7	0.000	-1.75	13.80	0.00	0.00	0.00	55.05
		6	1.000	-1.73	18.40	0.00	0.00	0.00	38.95
	CO15	7	0.000	-1.15	9.00	0.00	0.00	0.00	35.89
		6	1.000	-1.14	12.00	-0.00	0.00	0.00	25.39
	CO16	7	0.000	-1.45	11.40	-0.00	0.00	0.00	45.47
		6	1.000	-1.44	15.20	0.00	0.00	0.00	32.17
	CO17	7	0.000	-5.28	23.99	0.00	0.00	0.00	99.19
		6	1.000	-5.23	32.24	-0.00	0.00	0.00	71.07
	LC1	8	0.000	-1.16	6.00	0.00	0.00	0.00	43.37
		7	1.000	-1.16	9.00	0.00	0.00	0.00	35.87
	LC2	8	0.000	-1.45	-0.49	0.00	0.00	0.00	-0.32
		7	1.000	-1.45	-0.49	0.00	0.00	0.00	0.18
	LC3	8	0.000	-1.54	8.00	0.00	0.00	0.00	57.82
		7	1.000	-1.54	12.00	0.00	0.00	0.00	47.82
	CO1	8	0.000	-1.55	8.10	-0.00	0.00	0.00	58.59
		7	1.000	-1.54	12.15	0.00	0.00	0.00	48.46
	CO2	8	0.000	-3.50	6.15	0.00	0.00	0.00	49.46
		7	1.000	-3.49	9.60	0.00	0.00	0.00	41.59
	CO3	8	0.000	-5.09	14.53	0.00	0.00	0.00	110.34
		7	1.000	-5.06	22.19	0.00	0.00	0.00	91.98
	CO4	8	0.000	-3.58	18.91	0.00	0.00	0.00	136.84
		7	1.000	-3.53	28.36	0.00	0.00	0.00	113.21
	CO5	8	0.000	-4.89	18.44	0.00	0.00	0.00	136.61
		7	1.000	-4.84	27.90	0.00	0.00	0.00	113.44
	CO6	8	0.000	-1.15	6.00	0.00	0.00	0.00	43.39
		7	1.000	-1.15	9.00	0.00	0.00	0.00	35.89
	CO7	8	0.000	-2.60	5.50	0.00	0.00	0.00	43.09
		7	1.000	-2.60	8.50	-0.00	0.00	0.00	36.09
	CO8	8	0.000	-3.67	11.09	0.00	0.00	0.00	83.65
		7	1.000	-3.65	16.90	0.00	0.00	0.00	69.66
	CO9	8	0.000	-2.67	14.00	-0.00	0.00	0.00	101.32



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

■ 4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
6	CO9	7	1.000	-2.64	21.01	-0.00	0.00	0.00	83.81
	CO10	8	0.000	-3.54	13.70	-0.00	0.00	0.00	101.16
		7	1.000	-3.51	20.70	-0.00	0.00	0.00	83.96
	CO11	8	0.000	-1.15	6.00	0.00	0.00	0.00	43.39
		7	1.000	-1.15	9.00	0.00	0.00	0.00	35.89
	CO12	8	0.000	-1.44	5.90	0.00	0.00	0.00	43.33
		7	1.000	-1.44	8.90	-0.00	0.00	0.00	35.93
	CO13	8	0.000	-1.75	7.50	0.00	0.00	0.00	54.91
		7	1.000	-1.74	11.30	0.00	0.00	0.00	45.51
	CO14	8	0.000	-1.76	9.20	0.00	0.00	0.00	66.55
		7	1.000	-1.75	13.80	0.00	0.00	0.00	55.05
	CO15	8	0.000	-1.15	6.00	0.00	0.00	0.00	43.39
		7	1.000	-1.15	9.00	0.00	0.00	0.00	35.89
	CO16	8	0.000	-1.46	7.60	-0.00	0.00	0.00	54.97
		7	1.000	-1.45	11.40	-0.00	0.00	0.00	45.47
	CO17	8	0.000	-5.31	15.73	-0.00	0.00	0.00	119.05
7		7	1.000	-5.28	23.99	0.00	0.00	0.00	99.19
	LC1	9	0.000	-1.16	3.00	0.00	0.00	0.00	47.87
		8	1.000	-1.16	6.00	0.00	0.00	0.00	43.37
	LC2	9	0.000	-1.45	-0.49	0.00	0.00	0.00	-0.81
		8	1.000	-1.45	-0.49	0.00	0.00	0.00	-0.32
	LC3	9	0.000	-1.54	4.00	0.00	0.00	0.00	63.82
		8	1.000	-1.54	8.00	0.00	0.00	0.00	57.82
	CO1	9	0.000	-1.56	4.05	0.00	0.00	0.00	64.67
		8	1.000	-1.55	8.10	-0.00	0.00	0.00	58.59
	CO2	9	0.000	-3.50	2.69	0.00	0.00	0.00	53.88
		8	1.000	-3.50	6.15	0.00	0.00	0.00	49.46
	CO3	9	0.000	-5.11	6.88	0.00	0.00	0.00	121.05
		8	1.000	-5.09	14.53	0.00	0.00	0.00	110.34
	CO4	9	0.000	-3.61	9.45	0.00	0.00	0.00	151.02
		8	1.000	-3.58	18.91	0.00	0.00	0.00	136.84
	CO5	9	0.000	-4.92	8.99	0.00	0.00	0.00	150.33
		8	1.000	-4.89	18.44	0.00	0.00	0.00	136.61
	CO6	9	0.000	-1.15	3.00	0.00	0.00	0.00	47.89
		8	1.000	-1.15	6.00	0.00	0.00	0.00	43.39
	CO7	9	0.000	-2.61	2.50	0.00	0.00	0.00	47.09
		8	1.000	-2.60	5.50	0.00	0.00	0.00	43.09
	CO8	9	0.000	-3.68	5.29	0.00	0.00	0.00	91.85
		8	1.000	-3.67	11.09	0.00	0.00	0.00	83.65
	CO9	9	0.000	-2.68	7.00	0.00	0.00	0.00	111.82
		8	1.000	-2.67	14.00	-0.00	0.00	0.00	101.32
	CO10	9	0.000	-3.55	6.69	0.00	0.00	0.00	111.35
		8	1.000	-3.54	13.70	-0.00	0.00	0.00	101.16
	CO11	9	0.000	-1.15	3.00	0.00	0.00	0.00	47.89
		8	1.000	-1.15	6.00	0.00	0.00	0.00	43.39
	CO12	9	0.000	-1.44	2.90	-0.00	0.00	0.00	47.73
		8	1.000	-1.44	5.90	0.00	0.00	0.00	43.33
	CO13	9	0.000	-1.75	3.70	0.00	0.00	0.00	60.51
		8	1.000	-1.75	7.50	0.00	0.00	0.00	54.91
	CO14	9	0.000	-1.77	4.60	0.00	0.00	0.00	73.45
		8	1.000	-1.76	9.20	0.00	0.00	0.00	66.55
	CO15	9	0.000	-1.15	3.00	0.00	0.00	0.00	47.89
		8	1.000	-1.15	6.00	0.00	0.00	0.00	43.39
	CO16	9	0.000	-1.46	3.80	0.00	0.00	0.00	60.67
		8	1.000	-1.46	7.60	-0.00	0.00	0.00	54.97
	CO17	9	0.000	-5.34	7.48	0.00	0.00	0.00	130.65
		8	1.000	-5.31	15.73	-0.00	0.00	0.00	119.05
8	LC1	10	0.000	-1.16	0.00	0.00	0.00	0.00	49.37



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

■ 4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
8	LC1	9	1.000	-1.16	3.00	0.00	0.00	0.00	47.87
	LC2	10	0.000	-1.45	-0.49	0.00	0.00	0.00	-1.31
		9	1.000	-1.45	-0.49	0.00	0.00	0.00	-0.81
	LC3	10	0.000	-1.54	0.00	0.00	0.00	0.00	65.82
		9	1.000	-1.54	4.00	0.00	0.00	0.00	63.82
	CO1	10	0.000	-1.56	0.00	0.00	0.00	0.00	66.69
		9	1.000	-1.56	4.05	0.00	0.00	0.00	64.67
	CO2	10	0.000	-3.50	-0.76	0.00	0.00	0.00	54.85
		9	1.000	-3.50	2.69	0.00	0.00	0.00	53.88
	CO3	10	0.000	-5.11	-0.77	0.00	0.00	0.00	124.10
		9	1.000	-5.11	6.88	0.00	0.00	0.00	121.05
	CO4	10	0.000	-3.63	0.00	0.00	0.00	0.00	155.75
		9	1.000	-3.61	9.45	0.00	0.00	0.00	151.02
	CO5	10	0.000	-4.93	-0.47	0.00	0.00	0.00	154.58
		9	1.000	-4.92	8.99	0.00	0.00	0.00	150.33
	CO6	10	0.000	-1.15	0.00	0.00	0.00	0.00	49.39
		9	1.000	-1.15	3.00	0.00	0.00	0.00	47.89
	CO7	10	0.000	-2.61	-0.50	0.00	0.00	0.00	48.09
		9	1.000	-2.61	2.50	0.00	0.00	0.00	47.09
	CO8	10	0.000	-3.68	-0.51	0.00	0.00	0.00	94.24
		9	1.000	-3.68	5.29	0.00	0.00	0.00	91.85
	CO9	10	0.000	-2.69	0.00	0.00	0.00	0.00	115.32
		9	1.000	-2.68	7.00	0.00	0.00	0.00	111.82
	CO10	10	0.000	-3.56	-0.31	0.00	0.00	0.00	114.54
		9	1.000	-3.55	6.69	0.00	0.00	0.00	111.35
	CO11	10	0.000	-1.15	0.00	0.00	0.00	0.00	49.39
		9	1.000	-1.15	3.00	0.00	0.00	0.00	47.89
	CO12	10	0.000	-1.45	-0.10	0.00	0.00	0.00	49.13
		9	1.000	-1.44	2.90	-0.00	0.00	0.00	47.73
	CO13	10	0.000	-1.75	-0.10	0.00	0.00	0.00	62.31
		9	1.000	-1.75	3.70	0.00	0.00	0.00	60.51
	CO14	10	0.000	-1.77	0.00	0.00	0.00	0.00	75.75
		9	1.000	-1.77	4.60	0.00	0.00	0.00	73.45
	CO15	10	0.000	-1.15	0.00	0.00	0.00	0.00	49.39
		9	1.000	-1.15	3.00	0.00	0.00	0.00	47.89
	CO16	10	0.000	-1.46	0.00	0.00	0.00	0.00	62.57
		9	1.000	-1.46	3.80	0.00	0.00	0.00	60.67
	CO17	10	0.000	-5.34	-0.78	0.00	0.00	0.00	134.00
		9	1.000	-5.34	7.48	0.00	0.00	0.00	130.65
9	LC1	11	0.000	-1.16	-3.00	0.00	0.00	0.00	47.87
		10	1.000	-1.16	0.00	0.00	0.00	0.00	49.37
	LC2	11	0.000	-1.45	-0.49	0.00	0.00	0.00	-1.80
		10	1.000	-1.45	-0.49	0.00	0.00	0.00	-1.31
	LC3	11	0.000	-1.54	-4.00	0.00	0.00	0.00	63.82
		10	1.000	-1.54	0.00	0.00	0.00	0.00	65.82
	CO1	11	0.000	-1.56	-4.05	0.00	0.00	0.00	64.67
		10	1.000	-1.56	-0.00	0.00	0.00	0.00	66.69
	CO2	11	0.000	-3.50	-4.21	0.00	0.00	0.00	52.37
		10	1.000	-3.50	-0.76	0.00	0.00	0.00	54.85
	CO3	11	0.000	-5.11	-8.43	0.00	0.00	0.00	119.50
		10	1.000	-5.11	-0.77	0.00	0.00	0.00	124.10
	CO4	11	0.000	-3.61	-9.45	0.00	0.00	0.00	151.02
		10	1.000	-3.63	-0.00	0.00	0.00	0.00	155.75
	CO5	11	0.000	-4.92	-9.93	0.00	0.00	0.00	149.39
		10	1.000	-4.93	-0.47	0.00	0.00	0.00	154.58
	CO6	11	0.000	-1.15	-3.00	0.00	0.00	0.00	47.89
		10	1.000	-1.15	-0.00	0.00	0.00	0.00	49.39
	CO7	11	0.000	-2.60	-3.50	0.00	0.00	0.00	46.09



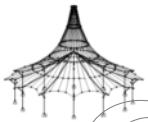
Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
9	CO7	10	1.000	-2.61	-0.50	0.00	0.00	0.00	48.09
	CO8	11	0.000	-3.68	-6.31	0.00	0.00	0.00	90.82
		10	1.000	-3.68	-0.51	0.00	0.00	0.00	94.24
	CO9	11	0.000	-2.68	-7.00	0.00	0.00	0.00	111.82
		10	1.000	-2.69	-0.00	0.00	0.00	0.00	115.32
	CO10	11	0.000	-3.55	-7.31	0.00	0.00	0.00	110.73
		10	1.000	-3.56	-0.31	0.00	0.00	0.00	114.54
	CO11	11	0.000	-1.15	-3.00	0.00	0.00	0.00	47.89
		10	1.000	-1.15	-0.00	0.00	0.00	0.00	49.39
	CO12	11	0.000	-1.44	-3.10	0.00	0.00	0.00	47.53
		10	1.000	-1.45	-0.10	0.00	0.00	0.00	49.13
	CO13	11	0.000	-1.75	-3.90	0.00	0.00	0.00	60.31
		10	1.000	-1.75	-0.10	0.00	0.00	0.00	62.31
	CO14	11	0.000	-1.77	-4.60	0.00	0.00	0.00	73.45
		10	1.000	-1.77	-0.00	0.00	0.00	0.00	75.75
	CO15	11	0.000	-1.15	-3.00	0.00	0.00	0.00	47.89
		10	1.000	-1.15	-0.00	0.00	0.00	0.00	49.39
10	CO16	11	0.000	-1.46	-3.80	0.00	0.00	0.00	60.67
		10	1.000	-1.46	-0.00	0.00	0.00	0.00	62.57
	CO17	11	0.000	-5.33	-9.03	0.00	0.00	0.00	129.10
		10	1.000	-5.34	-0.78	0.00	0.00	0.00	134.00
	LC1	12	0.000	-1.16	-6.00	0.00	0.00	0.00	43.37
		11	1.000	-1.16	-3.00	0.00	0.00	0.00	47.87
	LC2	12	0.000	-1.45	-0.49	0.00	0.00	0.00	-2.29
		11	1.000	-1.45	-0.49	0.00	0.00	0.00	-1.80
	LC3	12	0.000	-1.54	-8.00	0.00	0.00	0.00	57.82
		11	1.000	-1.54	-4.00	0.00	0.00	0.00	63.82
	CO1	12	0.000	-1.55	-8.10	0.00	0.00	0.00	58.59
		11	1.000	-1.56	-4.05	0.00	0.00	0.00	64.67
	CO2	12	0.000	-3.50	-7.66	0.00	0.00	0.00	46.44
		11	1.000	-3.50	-4.21	0.00	0.00	0.00	52.37
	CO3	12	0.000	-5.08	-16.08	0.00	0.00	0.00	107.24
		11	1.000	-5.11	-8.43	0.00	0.00	0.00	119.50
	CO4	12	0.000	-3.58	-18.91	0.00	0.00	0.00	136.84
		11	1.000	-3.61	-9.45	0.00	0.00	0.00	151.02
	CO5	12	0.000	-4.89	-19.38	0.00	0.00	0.00	134.73
		11	1.000	-4.92	-9.93	0.00	0.00	0.00	149.39
	CO6	12	0.000	-1.15	-6.00	0.00	0.00	0.00	43.39
		11	1.000	-1.15	-3.00	0.00	0.00	0.00	47.89
	CO7	12	0.000	-2.60	-6.51	0.00	0.00	0.00	41.08
		11	1.000	-2.60	-3.50	0.00	0.00	0.00	46.09
	CO8	12	0.000	-3.66	-12.12	0.00	0.00	0.00	81.61
		11	1.000	-3.68	-6.31	0.00	0.00	0.00	90.82
	CO9	12	0.000	-2.67	-14.00	0.00	0.00	0.00	101.32
		11	1.000	-2.68	-7.00	0.00	0.00	0.00	111.82
	CO10	12	0.000	-3.54	-14.31	0.00	0.00	0.00	99.92
		11	1.000	-3.55	-7.31	0.00	0.00	0.00	110.73
	CO11	12	0.000	-1.15	-6.00	0.00	0.00	0.00	43.39
		11	1.000	-1.15	-3.00	0.00	0.00	0.00	47.89
	CO12	12	0.000	-1.44	-6.10	0.00	0.00	0.00	42.93
		11	1.000	-1.44	-3.10	0.00	0.00	0.00	47.53
	CO13	12	0.000	-1.75	-7.70	0.00	0.00	0.00	54.51
		11	1.000	-1.75	-3.90	0.00	0.00	0.00	60.31
	CO14	12	0.000	-1.76	-9.20	0.00	0.00	0.00	66.55
		11	1.000	-1.77	-4.60	0.00	0.00	0.00	73.45
	CO15	12	0.000	-1.15	-6.00	0.00	0.00	0.00	43.39
		11	1.000	-1.15	-3.00	0.00	0.00	0.00	47.89
	CO16	12	0.000	-1.46	-7.60	0.00	0.00	0.00	54.97



RESULTS

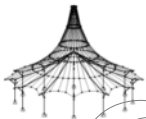
Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

■ 4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
10	CO16	11	1.000	-1.46	-3.80	0.00	0.00	0.00	60.67
	CO17	12	0.000	-5.31	-17.29	0.00	0.00	0.00	115.93
11	LC1	11	1.000	-5.33	-9.03	0.00	0.00	0.00	129.10
		13	0.000	-1.16	-9.00	0.00	0.00	0.00	35.87
	LC2	12	1.000	-1.16	-6.00	0.00	0.00	0.00	43.37
		13	0.000	-1.45	-0.49	0.00	0.00	0.00	-2.79
	LC3	12	1.000	-1.45	-0.49	0.00	0.00	0.00	-2.29
		13	0.000	-1.54	-12.00	0.00	0.00	0.00	47.82
	CO1	12	1.000	-1.54	-8.00	0.00	0.00	0.00	57.82
		13	0.000	-1.54	-12.15	0.00	0.00	0.00	48.46
	CO2	12	1.000	-1.55	-8.10	0.00	0.00	0.00	58.59
		13	0.000	-3.49	-11.11	0.00	0.00	0.00	37.05
	CO3	12	1.000	-3.50	-7.66	0.00	0.00	0.00	46.44
		13	0.000	-5.05	-23.74	0.00	0.00	0.00	87.33
	CO4	12	1.000	-5.08	-16.08	0.00	0.00	0.00	107.24
		13	0.000	-3.53	-28.36	0.00	0.00	0.00	113.21
	CO5	12	1.000	-3.58	-18.91	0.00	0.00	0.00	136.84
		13	0.000	-4.84	-28.84	0.00	0.00	0.00	110.62
	CO6	12	1.000	-4.89	-19.38	0.00	0.00	0.00	134.73
		13	0.000	-1.15	-9.00	0.00	0.00	0.00	35.89
	CO7	12	1.000	-1.15	-6.00	0.00	0.00	0.00	43.39
		13	0.000	-2.60	-9.51	0.00	0.00	0.00	33.08
	CO8	12	1.000	-2.60	-6.51	0.00	0.00	0.00	41.08
		13	0.000	-3.65	-17.92	0.00	0.00	0.00	66.59
	CO9	12	1.000	-3.66	-12.12	0.00	0.00	0.00	81.61
		13	0.000	-2.64	-21.01	0.00	0.00	0.00	83.81
	CO10	12	1.000	-2.67	-14.00	0.00	0.00	0.00	101.32
		13	0.000	-3.51	-21.32	0.00	0.00	0.00	82.10
	CO11	12	1.000	-3.54	-14.31	0.00	0.00	0.00	99.92
		13	0.000	-1.15	-9.00	0.00	0.00	0.00	35.89
	CO12	12	1.000	-1.15	-6.00	0.00	0.00	0.00	43.39
		13	0.000	-1.44	-9.10	0.00	0.00	0.00	35.33
	CO13	12	1.000	-1.44	-6.10	0.00	0.00	0.00	42.93
		13	0.000	-1.74	-11.50	0.00	0.00	0.00	44.90
	CO14	12	1.000	-1.75	-7.70	0.00	0.00	0.00	54.51
		13	0.000	-1.75	-13.80	0.00	0.00	0.00	55.05
	CO15	12	1.000	-1.76	-9.20	0.00	0.00	0.00	66.55
		13	0.000	-1.15	-9.00	0.00	0.00	0.00	35.89
	CO16	12	1.000	-1.15	-6.00	0.00	0.00	0.00	43.39
		13	0.000	-1.45	-11.40	0.00	0.00	0.00	45.47
	CO17	12	1.000	-1.46	-7.60	0.00	0.00	0.00	54.97
		13	0.000	-5.27	-25.54	0.00	0.00	0.00	94.52
12	LC1	12	1.000	-5.31	-17.29	0.00	0.00	0.00	115.93
		14	0.000	-1.16	-12.00	0.00	0.00	0.00	25.37
	LC2	13	1.000	-1.16	-9.00	0.00	0.00	0.00	35.87
		14	0.000	-1.45	-0.49	0.00	0.00	0.00	-3.28
	LC3	13	1.000	-1.45	-0.49	0.00	0.00	0.00	-2.79
		14	0.000	-1.54	-16.00	0.00	0.00	0.00	33.82
	CO1	13	1.000	-1.54	-12.00	0.00	0.00	0.00	47.82
		14	0.000	-1.53	-16.20	0.00	0.00	0.00	34.28
	CO2	13	1.000	-1.54	-12.15	0.00	0.00	0.00	48.46
		14	0.000	-3.48	-14.56	0.00	0.00	0.00	24.21
	CO3	13	1.000	-3.49	-11.11	0.00	0.00	0.00	37.05
		14	0.000	-5.01	-31.39	0.00	0.00	0.00	59.76
	CO4	13	1.000	-5.05	-23.74	0.00	0.00	0.00	87.33
		14	0.000	-3.47	-37.81	0.00	0.00	0.00	80.12
	CO5	13	1.000	-3.53	-28.36	0.00	0.00	0.00	113.21
		14	0.000	-4.78	-38.29	0.00	0.00	0.00	77.06



RESULTS

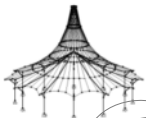
Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

■ 4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
12	CO5	13	1.000	-4.84	-28.84	0.00	0.00	0.00	110.62
	CO6	14	0.000	-1.14	-12.00	0.00	0.00	0.00	25.39
		13	1.000	-1.15	-9.00	0.00	0.00	0.00	35.89
	CO7	14	0.000	-2.59	-12.51	0.00	0.00	0.00	22.07
		13	1.000	-2.60	-9.51	0.00	0.00	0.00	33.08
	CO8	14	0.000	-3.62	-23.72	0.00	0.00	0.00	45.77
		13	1.000	-3.65	-17.92	0.00	0.00	0.00	66.59
	CO9	14	0.000	-2.61	-28.01	0.00	0.00	0.00	59.30
		13	1.000	-2.64	-21.01	0.00	0.00	0.00	83.81
	CO10	14	0.000	-3.48	-28.32	0.00	0.00	0.00	57.29
		13	1.000	-3.51	-21.32	0.00	0.00	0.00	82.10
	CO11	14	0.000	-1.14	-12.00	0.00	0.00	0.00	25.39
		13	1.000	-1.15	-9.00	0.00	0.00	0.00	35.89
	CO12	14	0.000	-1.43	-12.10	0.00	0.00	0.00	24.72
		13	1.000	-1.44	-9.10	0.00	0.00	0.00	35.33
	CO13	14	0.000	-1.73	-15.30	0.00	0.00	0.00	31.50
		13	1.000	-1.74	-11.50	0.00	0.00	0.00	44.90
13	CO14	14	0.000	-1.73	-18.40	0.00	0.00	0.00	38.95
		13	1.000	-1.75	-13.80	0.00	0.00	0.00	55.05
	CO15	14	0.000	-1.14	-12.00	0.00	0.00	0.00	25.39
		13	1.000	-1.15	-9.00	0.00	0.00	0.00	35.89
	CO16	14	0.000	-1.44	-15.20	0.00	0.00	0.00	32.17
		13	1.000	-1.45	-11.40	0.00	0.00	0.00	45.47
	CO17	14	0.000	-5.23	-33.80	0.00	0.00	0.00	64.85
		13	1.000	-5.27	-25.54	0.00	0.00	0.00	94.52
	LC1	15	0.000	-1.16	-15.00	0.00	0.00	0.00	11.87
		14	1.000	-1.16	-12.00	0.00	0.00	0.00	25.37
	LC2	15	0.000	-1.45	-0.49	0.00	0.00	0.00	-3.77
		14	1.000	-1.45	-0.49	0.00	0.00	0.00	-3.28
	LC3	15	0.000	-1.54	-20.00	0.00	0.00	0.00	15.82
		14	1.000	-1.54	-16.00	0.00	0.00	0.00	33.82
	CO1	15	0.000	-1.52	-20.25	0.00	0.00	0.00	16.06
		14	1.000	-1.53	-16.20	0.00	0.00	0.00	34.28
	CO2	15	0.000	-3.48	-18.01	0.00	0.00	0.00	7.93
		14	1.000	-3.48	-14.56	0.00	0.00	0.00	24.21
	CO3	15	0.000	-4.98	-39.04	0.00	0.00	0.00	24.55
		14	1.000	-5.01	-31.39	0.00	0.00	0.00	59.76
	CO4	15	0.000	-3.41	-47.27	0.00	0.00	0.00	37.58
		14	1.000	-3.47	-37.81	0.00	0.00	0.00	80.12
	CO5	15	0.000	-4.72	-47.74	0.00	0.00	0.00	34.05
		14	1.000	-4.78	-38.29	0.00	0.00	0.00	77.06
	CO6	15	0.000	-1.13	-15.00	0.00	0.00	0.00	11.89
		14	1.000	-1.14	-12.00	0.00	0.00	0.00	25.39
	CO7	15	0.000	-2.59	-15.51	0.00	0.00	0.00	8.06
		14	1.000	-2.59	-12.51	0.00	0.00	0.00	22.07
	CO8	15	0.000	-3.60	-29.52	0.00	0.00	0.00	19.15
		14	1.000	-3.62	-23.72	0.00	0.00	0.00	45.77
	CO9	15	0.000	-2.57	-35.01	0.00	0.00	0.00	27.80
		14	1.000	-2.61	-28.01	0.00	0.00	0.00	59.30
	CO10	15	0.000	-3.44	-35.32	0.00	0.00	0.00	25.47
		14	1.000	-3.48	-28.32	0.00	0.00	0.00	57.29
	CO11	15	0.000	-1.13	-15.00	0.00	0.00	0.00	11.89
		14	1.000	-1.14	-12.00	0.00	0.00	0.00	25.39
	CO12	15	0.000	-1.42	-15.10	0.00	0.00	0.00	11.12
		14	1.000	-1.43	-12.10	0.00	0.00	0.00	24.72
	CO13	15	0.000	-1.72	-19.10	0.00	0.00	0.00	14.30
		14	1.000	-1.73	-15.30	0.00	0.00	0.00	31.50
	CO14	15	0.000	-1.72	-23.00	0.00	0.00	0.00	18.24



RESULTS

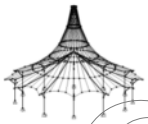
Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
13	CO14	14	1.000	-1.73	-18.40	0.00	0.00	0.00	38.95
	CO15	15	0.000	-1.13	-15.00	0.00	0.00	0.00	11.89
		14	1.000	-1.14	-12.00	0.00	0.00	0.00	25.39
	CO16	15	0.000	-1.43	-19.00	0.00	0.00	0.00	15.06
		14	1.000	-1.44	-15.20	0.00	0.00	0.00	32.17
	CO17	15	0.000	-5.18	-42.05	0.00	0.00	0.00	26.93
14		14	1.000	-5.23	-33.80	0.00	0.00	0.00	64.85
	LC1	3	0.000	-1.16	-18.00	0.00	0.00	0.00	-4.63
		15	1.000	-1.16	-15.00	0.00	0.00	0.00	11.87
	LC2	3	0.000	-1.45	-0.49	0.00	0.00	0.00	-4.27
		15	1.000	-1.45	-0.49	0.00	0.00	0.00	-3.77
	LC3	3	0.000	-1.54	-24.00	0.00	0.00	0.00	-6.18
		15	1.000	-1.54	-20.00	0.00	0.00	0.00	15.82
	CO1	3	0.000	-1.51	-24.30	0.00	0.00	0.00	-6.22
		15	1.000	-1.52	-20.25	0.00	0.00	0.00	16.06
	CO2	3	0.000	-3.47	-21.46	0.00	0.00	-0.00	-11.81
		15	1.000	-3.48	-18.01	0.00	0.00	0.00	7.93
	CO3	3	0.000	-4.95	-46.69	0.00	0.00	-0.00	-18.32
		15	1.000	-4.98	-39.04	0.00	0.00	0.00	24.55
	CO4	3	0.000	-3.37	-56.72	0.00	0.00	0.00	-14.42
		15	1.000	-3.41	-47.27	0.00	0.00	0.00	37.58
	CO5	3	0.000	-4.68	-57.19	0.00	0.00	0.00	-18.42
		15	1.000	-4.72	-47.74	0.00	0.00	0.00	34.05
	CO6	3	0.000	-1.13	-18.00	0.00	0.00	0.00	-4.61
		15	1.000	-1.13	-15.00	0.00	0.00	0.00	11.89
	CO7	3	0.000	-2.58	-18.51	0.00	0.00	0.00	-8.94
		15	1.000	-2.59	-15.51	0.00	0.00	0.00	8.06
	CO8	3	0.000	-3.59	-35.32	0.00	0.00	0.00	-13.27
		15	1.000	-3.60	-29.52	0.00	0.00	0.00	19.15
	CO9	3	0.000	-2.55	-42.01	0.00	0.00	0.00	-10.71
		15	1.000	-2.57	-35.01	0.00	0.00	0.00	27.80
	CO10	3	0.000	-3.42	-42.32	0.00	0.00	0.00	-13.35
		15	1.000	-3.44	-35.32	0.00	0.00	0.00	25.47
	CO11	3	0.000	-1.13	-18.00	0.00	0.00	0.00	-4.61
		15	1.000	-1.13	-15.00	0.00	0.00	0.00	11.89
	CO12	3	0.000	-1.42	-18.10	0.00	0.00	0.00	-5.48
		15	1.000	-1.42	-15.10	0.00	0.00	0.00	11.12
	CO13	3	0.000	-1.71	-22.90	0.00	0.00	-0.00	-6.71
		15	1.000	-1.72	-19.10	0.00	0.00	0.00	14.30
	CO14	3	0.000	-1.71	-27.60	0.00	0.00	0.00	-7.06
		15	1.000	-1.72	-23.00	0.00	0.00	0.00	18.24
	CO15	3	0.000	-1.13	-18.00	0.00	0.00	0.00	-4.61
		15	1.000	-1.13	-15.00	0.00	0.00	0.00	11.89
	CO16	3	0.000	-1.42	-22.80	0.00	0.00	-0.00	-5.84
		15	1.000	-1.43	-19.00	0.00	0.00	0.00	15.06
	CO17	3	0.000	-5.15	-50.30	0.00	0.00	0.00	-19.25
		15	1.000	-5.18	-42.05	0.00	0.00	0.00	26.93
Section No. 2: T-Rectangle 0.2/0.2									
1	LC1	16	0.000	-23.00	-1.16	0.00	0.00	0.00	1.15
		1	1.000	-24.00	-1.16	0.00	0.00	0.00	2.31
	LC2	16	0.000	0.49	3.55	0.00	0.00	0.00	-3.59
		1	1.000	0.49	4.55	0.00	0.00	0.00	-7.63
	LC3	16	0.000	-24.00	-1.54	0.00	0.00	0.00	1.54
		1	1.000	-24.00	-1.54	0.00	0.00	0.00	3.08
	CO1	16	0.000	-31.05	-1.57	0.00	0.00	0.00	1.57
		1	1.000	-32.40	-1.56	0.00	0.00	0.00	3.13
	CO2	16	0.000	-25.69	4.03	0.00	0.00	0.00	-4.14
		1	1.000	-26.84	5.50	0.00	0.00	0.00	-8.91



Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
1	CO3	16	0.000	-50.87	2.43	-0.00	0.00	-0.00	-2.61
		1	1.000	-52.03	3.89	0.00	0.00	0.00	-5.77
	CO4	16	0.000	-62.45	-3.70	0.00	0.00	0.00	3.69
		1	1.000	-63.60	-3.63	0.00	0.00	0.00	7.35
	CO5	16	0.000	-61.98	-0.44	0.00	0.00	0.00	0.31
		1	1.000	-63.13	0.47	0.00	0.00	0.00	0.29
	CO6	16	0.000	-23.00	-1.16	0.00	0.00	0.00	1.16
		1	1.000	-24.00	-1.15	0.00	0.00	0.00	2.32
	CO7	16	0.000	-22.49	2.41	-0.00	0.00	-0.00	-2.48
		1	1.000	-23.50	3.39	0.00	0.00	0.00	-5.39
	CO8	16	0.000	-39.29	1.34	0.00	0.00	0.00	-1.44
		1	1.000	-40.29	2.32	0.00	0.00	0.00	-3.27
	CO9	16	0.000	-47.00	-2.73	0.00	0.00	0.00	2.72
		1	1.000	-48.00	-2.69	0.00	0.00	0.00	5.43
	CO10	16	0.000	-46.69	-0.57	0.00	0.00	0.00	0.49
3		1	1.000	-47.69	0.04	0.00	0.00	0.00	0.76
	CO11	16	0.000	-23.00	-1.16	0.00	0.00	0.00	1.16
		1	1.000	-24.00	-1.15	0.00	0.00	0.00	2.32
	CO12	16	0.000	-22.90	-0.45	0.00	0.00	0.00	0.43
		1	1.000	-23.90	-0.25	0.00	0.00	0.00	0.78
	CO13	16	0.000	-27.70	-0.76	0.00	0.00	0.00	0.74
		1	1.000	-28.70	-0.55	0.00	0.00	0.00	1.39
	CO14	16	0.000	-32.60	-1.79	0.00	0.00	0.00	1.78
		1	1.000	-33.60	-1.77	0.00	0.00	0.00	3.56
	CO15	16	0.000	-23.00	-1.16	0.00	0.00	0.00	1.16
		1	1.000	-24.00	-1.15	0.00	0.00	0.00	2.32
	CO16	16	0.000	-27.80	-1.48	0.00	0.00	0.00	1.47
		1	1.000	-28.80	-1.46	0.00	0.00	0.00	2.94
	CO17	16	0.000	-55.47	2.20	0.00	0.00	0.00	-2.39
		1	1.000	-56.82	3.66	0.00	0.00	0.00	-5.32
	LC1	4	0.000	-24.00	-1.16	0.00	0.00	0.00	2.31
		21	1.000	-23.00	1.16	0.00	0.00	0.00	1.15
	LC2	4	0.000	-0.49	1.45	0.00	0.00	0.00	4.44
		21	1.000	-0.49	1.45	0.00	0.00	0.00	2.99
	LC3	4	0.000	-24.00	1.54	0.00	0.00	0.00	3.08
		21	1.000	-24.00	1.54	0.00	0.00	0.00	1.54
	CO1	4	0.000	-32.40	1.56	0.00	0.00	0.00	3.13
		21	1.000	-31.05	1.57	0.00	0.00	0.00	1.57
	CO2	4	0.000	-28.36	3.50	0.00	0.00	0.00	9.44
		21	1.000	-27.20	3.55	-0.00	0.00	0.00	5.91
	CO3	4	0.000	-53.57	5.11	0.00	0.00	0.00	12.83
		21	1.000	-52.41	5.23	0.00	0.00	0.00	7.65
	CO4	4	0.000	-63.60	3.63	0.00	0.00	0.00	7.35
		21	1.000	-62.45	3.70	0.00	0.00	0.00	3.69
	CO5	4	0.000	-64.07	4.93	0.00	0.00	0.00	11.52
		21	1.000	-62.91	5.05	-0.00	0.00	0.00	6.52
	CO6	4	0.000	-24.00	1.15	0.00	0.00	0.00	2.32
		21	1.000	-23.00	1.16	0.00	0.00	0.00	1.16
	CO7	4	0.000	-24.50	2.61	0.00	0.00	0.00	6.82
		21	1.000	-23.50	2.63	-0.00	0.00	0.00	4.20
	CO8	4	0.000	-41.31	3.68	0.00	0.00	0.00	9.05
		21	1.000	-40.31	3.74	0.00	0.00	0.00	5.34
	CO9	4	0.000	-48.00	2.69	0.00	0.00	0.00	5.43
		21	1.000	-47.00	2.73	0.00	0.00	0.00	2.72
	CO10	4	0.000	-48.31	3.56	0.00	0.00	0.00	8.18
		21	1.000	-47.30	3.62	0.00	0.00	0.00	4.58
	CO11	4	0.000	-24.00	1.15	0.00	0.00	0.00	2.32
		21	1.000	-23.00	1.16	0.00	0.00	0.00	1.16



RESULTS

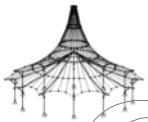
Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

■ 4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
3	CO12	4	0.000	-24.10	1.45	0.00	0.00	0.00	3.22
		21	1.000	-23.10	1.46	0.00	0.00	0.00	1.77
	CO13	4	0.000	-28.90	1.75	0.00	0.00	0.00	3.84
		21	1.000	-27.90	1.77	-0.00	0.00	0.00	2.08
	CO14	4	0.000	-33.60	1.77	0.00	0.00	0.00	3.56
		21	1.000	-32.60	1.79	0.00	0.00	0.00	1.78
	CO15	4	0.000	-24.00	1.15	0.00	0.00	0.00	2.32
		21	1.000	-23.00	1.16	0.00	0.00	0.00	1.16
	CO16	4	0.000	-28.80	1.46	0.00	0.00	0.00	2.94
		21	1.000	-27.80	1.48	0.00	0.00	0.00	1.47
	CO17	4	0.000	-58.38	5.34	0.00	0.00	0.00	13.32
		21	1.000	-57.02	5.47	-0.00	0.00	0.00	7.91
	LC1	17	0.000	-22.00	-1.16	0.00	0.00	0.00	-0.00
		16	1.000	-23.00	-1.16	0.00	0.00	0.00	1.15
15	LC2	17	0.000	0.49	2.55	0.00	0.00	0.00	-0.54
		16	1.000	0.49	3.55	0.00	0.00	0.00	-3.59
	LC3	17	0.000	-24.00	-1.54	0.00	0.00	0.00	-0.01
		16	1.000	-24.00	-1.54	0.00	0.00	0.00	1.54
	CO1	17	0.000	-29.70	-1.58	0.00	0.00	0.00	-0.01
		16	1.000	-31.05	-1.57	0.00	0.00	0.00	1.57
	CO2	17	0.000	-24.54	2.54	0.00	0.00	0.00	-0.86
		16	1.000	-25.69	4.03	0.00	0.00	0.00	-4.14
	CO3	17	0.000	-49.72	0.95	-0.00	0.00	-0.00	-0.92
		16	1.000	-50.87	2.43	-0.00	0.00	-0.00	-2.61
	CO4	17	0.000	-61.29	-3.72	0.00	0.00	0.00	-0.03
		16	1.000	-62.45	-3.70	0.00	0.00	0.00	3.69
	CO5	17	0.000	-60.83	-1.34	0.00	0.00	0.00	-0.58
		16	1.000	-61.98	-0.44	0.00	0.00	0.00	0.31
	CO6	17	0.000	-22.00	-1.17	0.00	0.00	0.00	-0.01
		16	1.000	-23.00	-1.16	0.00	0.00	0.00	1.16
	CO7	17	0.000	-21.50	1.42	0.00	0.00	0.00	-0.57
		16	1.000	-22.49	2.41	-0.00	0.00	-0.00	-2.48
	CO8	17	0.000	-38.29	0.34	0.00	0.00	0.00	-0.60
		16	1.000	-39.29	1.34	0.00	0.00	0.00	-1.44
	CO9	17	0.000	-46.00	-2.74	0.00	0.00	0.00	-0.02
		16	1.000	-47.00	-2.73	0.00	0.00	0.00	2.72
	CO10	17	0.000	-45.69	-1.17	0.00	0.00	0.00	-0.37
		16	1.000	-46.69	-0.57	0.00	0.00	0.00	0.49
	CO11	17	0.000	-22.00	-1.17	0.00	0.00	0.00	-0.01
		16	1.000	-23.00	-1.16	0.00	0.00	0.00	1.16
	CO12	17	0.000	-21.90	-0.65	0.00	0.00	0.00	-0.12
		16	1.000	-22.90	-0.45	0.00	0.00	0.00	0.43
	CO13	17	0.000	-26.70	-0.96	0.00	0.00	0.00	-0.12
		16	1.000	-27.70	-0.76	0.00	0.00	0.00	0.74
	CO14	17	0.000	-31.60	-1.79	0.00	0.00	0.00	-0.01
		16	1.000	-32.60	-1.79	0.00	0.00	0.00	1.78
	CO15	17	0.000	-22.00	-1.17	0.00	0.00	0.00	-0.01
		16	1.000	-23.00	-1.16	0.00	0.00	0.00	1.16
	CO16	17	0.000	-26.80	-1.48	0.00	0.00	0.00	-0.01
		16	1.000	-27.80	-1.48	0.00	0.00	0.00	1.47
	CO17	17	0.000	-54.12	0.72	0.00	0.00	0.00	-0.93
		16	1.000	-55.47	2.20	0.00	0.00	0.00	-2.39
16	LC1	18	0.000	-21.00	-1.16	0.00	0.00	0.00	-1.16
		17	1.000	-22.00	-1.16	0.00	0.00	0.00	-0.00
	LC2	18	0.000	0.49	1.55	0.00	0.00	0.00	1.51
		17	1.000	0.49	2.55	0.00	0.00	0.00	-0.54
	LC3	18	0.000	-24.00	-1.54	0.00	0.00	0.00	-1.55
		17	1.000	-24.00	-1.54	0.00	0.00	0.00	-0.01



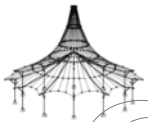
Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
16	CO1	18	0.000	-28.35	-1.57	0.00	0.00	0.00	-1.58
		17	1.000	-29.70	-1.58	0.00	0.00	0.00	-0.01
	CO2	18	0.000	-23.39	1.04	0.00	0.00	0.00	0.93
		17	1.000	-24.54	2.54	0.00	0.00	0.00	-0.86
	CO3	18	0.000	-48.58	-0.55	0.00	0.00	0.00	-0.72
		17	1.000	-49.72	0.95	-0.00	0.00	-0.00	-0.92
	CO4	18	0.000	-60.15	-3.69	0.00	0.00	0.00	-3.74
		17	1.000	-61.29	-3.72	0.00	0.00	0.00	-0.03
	CO5	18	0.000	-59.68	-2.22	0.00	0.00	0.00	-2.36
		17	1.000	-60.83	-1.34	0.00	0.00	0.00	-0.58
	CO6	18	0.000	-21.00	-1.16	0.00	0.00	0.00	-1.17
		17	1.000	-22.00	-1.17	0.00	0.00	0.00	-0.01
	CO7	18	0.000	-20.50	0.42	0.00	0.00	0.00	0.35
		17	1.000	-21.50	1.42	0.00	0.00	0.00	-0.57
	CO8	18	0.000	-37.29	-0.65	0.00	0.00	0.00	-0.75
		17	1.000	-38.29	0.34	0.00	0.00	0.00	-0.60
	CO9	18	0.000	-45.00	-2.73	0.00	0.00	-0.00	-2.75
		17	1.000	-46.00	-2.74	0.00	0.00	0.00	-0.02
	CO10	18	0.000	-44.69	-1.76	0.00	0.00	0.00	-1.84
		17	1.000	-45.69	-1.17	0.00	0.00	0.00	-0.37
	CO11	18	0.000	-21.00	-1.16	0.00	0.00	0.00	-1.17
		17	1.000	-22.00	-1.17	0.00	0.00	0.00	-0.01
	CO12	18	0.000	-20.90	-0.85	0.00	0.00	0.00	-0.87
		17	1.000	-21.90	-0.65	0.00	0.00	0.00	-0.12
	CO13	18	0.000	-25.70	-1.16	0.00	0.00	0.00	-1.18
		17	1.000	-26.70	-0.96	0.00	0.00	0.00	-0.12
	CO14	18	0.000	-30.60	-1.79	0.00	0.00	0.00	-1.80
		17	1.000	-31.60	-1.79	0.00	0.00	0.00	-0.01
	CO15	18	0.000	-21.00	-1.16	0.00	0.00	0.00	-1.17
		17	1.000	-22.00	-1.17	0.00	0.00	0.00	-0.01
	CO16	18	0.000	-25.80	-1.47	0.00	0.00	0.00	-1.48
		17	1.000	-26.80	-1.48	0.00	0.00	0.00	-0.01
	CO17	18	0.000	-52.77	-0.78	0.00	0.00	0.00	-0.96
		17	1.000	-54.12	0.72	0.00	0.00	0.00	-0.93
17	LC1	19	0.000	-20.00	-1.16	0.00	0.00	0.00	-2.32
		18	1.000	-21.00	-1.16	0.00	0.00	0.00	-1.16
	LC2	19	0.000	0.49	0.55	0.00	0.00	0.00	2.56
		18	1.000	0.49	1.55	0.00	0.00	0.00	1.51
	LC3	19	0.000	-24.00	-1.54	0.00	0.00	0.00	-3.09
		18	1.000	-24.00	-1.54	0.00	0.00	0.00	-1.55
	CO1	19	0.000	-27.00	-1.56	0.00	0.00	0.00	-3.15
		18	1.000	-28.35	-1.57	0.00	0.00	0.00	-1.58
	CO2	19	0.000	-22.24	-0.47	0.00	0.00	0.00	1.22
		18	1.000	-23.39	1.04	0.00	0.00	0.00	0.93
	CO3	19	0.000	-47.43	-2.04	0.00	0.00	0.00	-2.02
		18	1.000	-48.58	-0.55	0.00	0.00	0.00	-0.72
	CO4	19	0.000	-59.00	-3.62	0.00	0.00	0.00	-7.40
		18	1.000	-60.15	-3.69	0.00	0.00	0.00	-3.74
	CO5	19	0.000	-58.53	-3.07	0.00	0.00	0.00	-5.01
		18	1.000	-59.68	-2.22	0.00	0.00	0.00	-2.36
	CO6	19	0.000	-20.00	-1.15	0.00	0.00	0.00	-2.33
		18	1.000	-21.00	-1.16	0.00	0.00	0.00	-1.17
	CO7	19	0.000	-19.50	-0.59	0.00	0.00	0.00	0.26
		18	1.000	-20.50	0.42	0.00	0.00	0.00	0.35
	CO8	19	0.000	-36.29	-1.64	0.00	0.00	0.00	-1.90
		18	1.000	-37.29	-0.65	0.00	0.00	0.00	-0.75
	CO9	19	0.000	-44.00	-2.69	0.00	0.00	0.00	-5.46
		18	1.000	-45.00	-2.73	0.00	0.00	-0.00	-2.75



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
17	CO10	19	0.000	-43.69	-2.33	0.00	0.00	-0.00	-3.88
		18	1.000	-44.69	-1.76	0.00	0.00	0.00	-1.84
	CO11	19	0.000	-20.00	-1.15	0.00	0.00	0.00	-2.33
		18	1.000	-21.00	-1.16	0.00	0.00	0.00	-1.17
	CO12	19	0.000	-19.90	-1.04	0.00	0.00	0.00	-1.81
		18	1.000	-20.90	-0.85	0.00	0.00	0.00	-0.87
	CO13	19	0.000	-24.70	-1.35	0.00	0.00	0.00	-2.43
		18	1.000	-25.70	-1.16	0.00	0.00	0.00	-1.18
	CO14	19	0.000	-29.60	-1.77	0.00	0.00	0.00	-3.58
		18	1.000	-30.60	-1.79	0.00	0.00	0.00	-1.80
	CO15	19	0.000	-20.00	-1.15	0.00	0.00	0.00	-2.33
		18	1.000	-21.00	-1.16	0.00	0.00	0.00	-1.17
	CO16	19	0.000	-24.80	-1.46	0.00	0.00	0.00	-2.95
		18	1.000	-25.80	-1.47	0.00	0.00	0.00	-1.48
	CO17	19	0.000	-51.43	-2.26	0.00	0.00	0.00	-2.48
		18	1.000	-52.77	-0.78	0.00	0.00	0.00	-0.96
18	LC1	20	0.000	-19.00	-1.16	0.00	0.00	0.00	-3.48
		19	1.000	-20.00	-1.16	0.00	0.00	0.00	-2.32
	LC2	20	0.000	0.49	-0.45	0.00	0.00	0.00	2.61
		19	1.000	0.49	0.55	0.00	0.00	0.00	2.56
	LC3	20	0.000	-24.00	-1.54	0.00	0.00	0.00	-4.64
		19	1.000	-24.00	-1.54	0.00	0.00	0.00	-3.09
	CO1	20	0.000	-25.65	-1.54	0.00	0.00	0.00	-4.70
		19	1.000	-27.00	-1.56	0.00	0.00	0.00	-3.15
	CO2	20	0.000	-21.10	-1.97	0.00	0.00	0.00	-0.00
		19	1.000	-22.24	-0.47	0.00	0.00	0.00	1.22
	CO3	20	0.000	-46.28	-3.51	0.00	0.00	0.00	-4.79
		19	1.000	-47.43	-2.04	0.00	0.00	0.00	-2.02
	CO4	20	0.000	-57.86	-3.51	0.00	0.00	0.00	-10.97
		19	1.000	-59.00	-3.62	0.00	0.00	0.00	-7.40
	CO5	20	0.000	-57.39	-3.90	0.00	0.00	0.00	-8.50
		19	1.000	-58.53	-3.07	0.00	0.00	0.00	-5.01
	CO6	20	0.000	-19.00	-1.14	0.00	0.00	-0.00	-3.48
		19	1.000	-20.00	-1.15	0.00	0.00	0.00	-2.33
	CO7	20	0.000	-18.50	-1.59	0.00	0.00	0.00	-0.82
		19	1.000	-19.50	-0.59	0.00	0.00	0.00	0.26
	CO8	20	0.000	-35.29	-2.62	0.00	0.00	-0.00	-4.03
		19	1.000	-36.29	-1.64	0.00	0.00	0.00	-1.90
	CO9	20	0.000	-43.00	-2.63	0.00	0.00	0.00	-8.12
		19	1.000	-44.00	-2.69	0.00	0.00	0.00	-5.46
	CO10	20	0.000	-42.70	-2.89	0.00	0.00	0.00	-6.50
		19	1.000	-43.69	-2.33	0.00	0.00	-0.00	-3.88
	CO11	20	0.000	-19.00	-1.14	0.00	0.00	-0.00	-3.48
		19	1.000	-20.00	-1.15	0.00	0.00	0.00	-2.33
	CO12	20	0.000	-18.90	-1.23	0.00	0.00	0.00	-2.95
		19	1.000	-19.90	-1.04	0.00	0.00	0.00	-1.81
	CO13	20	0.000	-23.70	-1.53	0.00	0.00	0.00	-3.87
		19	1.000	-24.70	-1.35	0.00	0.00	0.00	-2.43
	CO14	20	0.000	-28.60	-1.74	0.00	0.00	0.00	-5.34
		19	1.000	-29.60	-1.77	0.00	0.00	0.00	-3.58
	CO15	20	0.000	-19.00	-1.14	0.00	0.00	-0.00	-3.48
		19	1.000	-20.00	-1.15	0.00	0.00	0.00	-2.33
	CO16	20	0.000	-23.80	-1.44	0.00	0.00	0.00	-4.41
		19	1.000	-24.80	-1.46	0.00	0.00	0.00	-2.95
	CO17	20	0.000	-50.08	-3.72	0.00	0.00	0.00	-5.47
		19	1.000	-51.43	-2.26	0.00	0.00	0.00	-2.48
19	LC1	2	0.000	-18.00	-1.16	0.00	0.00	0.00	-4.63
		20	1.000	-19.00	-1.16	0.00	0.00	0.00	-3.48



Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
19	LC2	2	0.000	0.49	-1.45	0.00	0.00	0.00	1.66
		20	1.000	0.49	-0.45	0.00	0.00	0.00	2.61
	LC3	2	0.000	-24.00	-1.54	0.00	0.00	0.00	-6.18
		20	1.000	-24.00	-1.54	0.00	0.00	0.00	-4.64
	CO1	2	0.000	-24.30	-1.51	0.00	0.00	0.00	-6.22
		20	1.000	-25.65	-1.54	0.00	0.00	0.00	-4.70
	CO2	2	0.000	-19.95	-3.47	0.00	0.00	0.00	-2.73
		20	1.000	-21.10	-1.97	0.00	0.00	0.00	-0.00
	CO3	2	0.000	-45.14	-4.95	0.00	0.00	0.00	-9.02
		20	1.000	-46.28	-3.51	0.00	0.00	0.00	-4.79
	CO4	2	0.000	-56.72	-3.37	0.00	0.00	0.00	-14.42
		20	1.000	-57.86	-3.51	0.00	0.00	0.00	-10.97
	CO5	2	0.000	-56.25	-4.67	0.00	0.00	-0.00	-12.79
		20	1.000	-57.39	-3.90	0.00	0.00	0.00	-8.50
	CO6	2	0.000	-18.00	-1.13	0.00	0.00	0.00	-4.61
		20	1.000	-19.00	-1.14	0.00	0.00	-0.00	-3.48
	CO7	2	0.000	-17.50	-2.58	0.00	0.00	0.00	-2.91
		20	1.000	-18.50	-1.59	0.00	0.00	0.00	-0.82
	CO8	2	0.000	-34.30	-3.58	0.00	0.00	0.00	-7.14
		20	1.000	-35.29	-2.62	0.00	0.00	-0.00	-4.03
	CO9	2	0.000	-42.01	-2.55	0.00	0.00	0.00	-10.71
		20	1.000	-43.00	-2.63	0.00	0.00	0.00	-8.12
	CO10	2	0.000	-41.70	-3.42	0.00	0.00	0.00	-9.65
		20	1.000	-42.70	-2.89	0.00	0.00	0.00	-6.50
	CO11	2	0.000	-18.00	-1.13	0.00	0.00	0.00	-4.61
		20	1.000	-19.00	-1.14	0.00	0.00	-0.00	-3.48
	CO12	2	0.000	-17.90	-1.42	0.00	0.00	0.00	-4.27
		20	1.000	-18.90	-1.23	0.00	0.00	0.00	-2.95
	CO13	2	0.000	-22.70	-1.71	0.00	0.00	0.00	-5.50
		20	1.000	-23.70	-1.53	0.00	0.00	0.00	-3.87
	CO14	2	0.000	-27.60	-1.71	0.00	0.00	0.00	-7.06
		20	1.000	-28.60	-1.74	0.00	0.00	0.00	-5.34
	CO15	2	0.000	-18.00	-1.13	0.00	0.00	0.00	-4.61
		20	1.000	-19.00	-1.14	0.00	0.00	-0.00	-3.48
	CO16	2	0.000	-22.80	-1.42	0.00	0.00	-0.00	-5.84
		20	1.000	-23.80	-1.44	0.00	0.00	0.00	-4.41
	CO17	2	0.000	-48.74	-5.15	0.00	0.00	-0.00	-9.91
		20	1.000	-50.08	-3.72	0.00	0.00	0.00	-5.47
20	LC1	21	0.000	-23.00	1.16	0.00	0.00	0.00	1.15
		22	1.000	-22.00	1.16	0.00	0.00	0.00	-0.00
	LC2	21	0.000	-0.49	1.45	0.00	0.00	0.00	2.99
		22	1.000	-0.49	1.45	0.00	0.00	0.00	1.54
	LC3	21	0.000	-24.00	1.54	0.00	0.00	0.00	1.54
		22	1.000	-24.00	1.54	0.00	0.00	0.00	-0.01
	CO1	21	0.000	-31.05	1.57	0.00	0.00	0.00	1.57
		22	1.000	-29.70	1.58	0.00	0.00	0.00	-0.01
	CO2	21	0.000	-27.20	3.55	-0.00	0.00	0.00	5.91
		22	1.000	-26.05	3.57	0.00	0.00	0.00	2.35
	CO3	21	0.000	-52.41	5.23	0.00	0.00	0.00	7.65
		22	1.000	-51.26	5.28	0.00	0.00	0.00	2.39
	CO4	21	0.000	-62.45	3.70	0.00	0.00	0.00	3.69
		22	1.000	-61.29	3.72	0.00	0.00	0.00	-0.03
	CO5	21	0.000	-62.91	5.05	-0.00	0.00	0.00	6.52
		22	1.000	-61.76	5.10	0.00	0.00	0.00	1.44
	CO6	21	0.000	-23.00	1.16	0.00	0.00	0.00	1.16
		22	1.000	-22.00	1.17	0.00	0.00	0.00	-0.01
	CO7	21	0.000	-23.50	2.63	-0.00	0.00	0.00	4.20
		22	1.000	-22.50	2.65	0.00	0.00	0.00	1.56



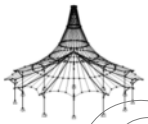
Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
20	CO8	21	0.000	-40.31	3.74	0.00	0.00	0.00	5.34
		22	1.000	-39.30	3.77	0.00	0.00	0.00	1.58
	CO9	21	0.000	-47.00	2.73	0.00	0.00	0.00	2.72
		22	1.000	-46.00	2.74	-0.00	0.00	0.00	-0.02
	CO10	21	0.000	-47.30	3.62	0.00	0.00	0.00	4.58
		22	1.000	-46.30	3.65	0.00	0.00	0.00	0.94
	CO11	21	0.000	-23.00	1.16	0.00	0.00	0.00	1.16
		22	1.000	-22.00	1.17	0.00	0.00	0.00	-0.01
	CO12	21	0.000	-23.10	1.46	0.00	0.00	0.00	1.77
		22	1.000	-22.10	1.46	-0.00	0.00	0.00	0.31
	CO13	21	0.000	-27.90	1.77	-0.00	0.00	0.00	2.08
		22	1.000	-26.90	1.78	0.00	0.00	0.00	0.31
	CO14	21	0.000	-32.60	1.79	0.00	0.00	0.00	1.78
		22	1.000	-31.60	1.79	0.00	0.00	0.00	-0.01
	CO15	21	0.000	-23.00	1.16	0.00	0.00	0.00	1.16
		22	1.000	-22.00	1.17	0.00	0.00	0.00	-0.01
21	CO16	21	0.000	-27.80	1.48	0.00	0.00	0.00	1.47
		22	1.000	-26.80	1.48	0.00	0.00	0.00	-0.01
	CO17	21	0.000	-57.02	5.47	-0.00	0.00	0.00	7.91
		22	1.000	-55.66	5.53	-0.00	0.00	0.00	2.40
	LC1	22	0.000	-22.00	1.16	0.00	0.00	0.00	-0.00
		23	1.000	-21.00	1.16	0.00	0.00	0.00	-1.16
	LC2	22	0.000	-0.49	1.45	0.00	0.00	0.00	1.54
		23	1.000	-0.49	1.45	0.00	0.00	0.00	0.09
	LC3	22	0.000	-24.00	1.54	0.00	0.00	0.00	-0.01
		23	1.000	-24.00	1.54	0.00	0.00	0.00	-1.55
	CO1	22	0.000	-29.70	1.58	0.00	0.00	0.00	-0.01
		23	1.000	-28.35	1.57	0.00	0.00	0.00	-1.58
	CO2	22	0.000	-26.05	3.57	0.00	0.00	0.00	2.35
		23	1.000	-24.90	3.57	0.00	0.00	0.00	-1.22
	CO3	22	0.000	-51.26	5.28	0.00	0.00	0.00	2.39
		23	1.000	-50.11	5.27	0.00	0.00	0.00	-2.89
	CO4	22	0.000	-61.29	3.72	0.00	0.00	0.00	-0.03
		23	1.000	-60.15	3.69	0.00	0.00	0.00	-3.74
	CO5	22	0.000	-61.76	5.10	0.00	0.00	0.00	1.44
		23	1.000	-60.61	5.08	0.00	0.00	0.00	-3.66
	CO6	22	0.000	-22.00	1.17	0.00	0.00	0.00	-0.01
		23	1.000	-21.00	1.16	0.00	0.00	0.00	-1.17
	CO7	22	0.000	-22.50	2.65	0.00	0.00	0.00	1.56
		23	1.000	-21.50	2.64	0.00	0.00	0.00	-1.09
	CO8	22	0.000	-39.30	3.77	0.00	0.00	0.00	1.58
		23	1.000	-38.30	3.76	0.00	0.00	0.00	-2.19
	CO9	22	0.000	-46.00	2.74	-0.00	0.00	0.00	-0.02
		23	1.000	-45.00	2.73	-0.00	0.00	-0.00	-2.75
	CO10	22	0.000	-46.30	3.65	0.00	0.00	0.00	0.94
		23	1.000	-45.30	3.64	0.00	0.00	0.00	-2.70
	CO11	22	0.000	-22.00	1.17	0.00	0.00	0.00	-0.01
		23	1.000	-21.00	1.16	0.00	0.00	0.00	-1.17
	CO12	22	0.000	-22.10	1.46	-0.00	0.00	0.00	0.31
		23	1.000	-21.10	1.46	0.00	0.00	0.00	-1.15
	CO13	22	0.000	-26.90	1.78	0.00	0.00	0.00	0.31
		23	1.000	-25.90	1.77	0.00	0.00	0.00	-1.47
	CO14	22	0.000	-31.60	1.79	0.00	0.00	0.00	-0.01
		23	1.000	-30.60	1.79	0.00	0.00	0.00	-1.80
	CO15	22	0.000	-22.00	1.17	0.00	0.00	0.00	-0.01
		23	1.000	-21.00	1.16	0.00	0.00	0.00	-1.17
	CO16	22	0.000	-26.80	1.48	0.00	0.00	0.00	-0.01
		23	1.000	-25.80	1.47	0.00	0.00	0.00	-1.48



Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
21	CO17	22	0.000	-55.66	5.53	-0.00	0.00	0.00	2.40
		23	1.000	-54.31	5.52	0.00	0.00	0.00	-3.13
22	LC1	23	0.000	-21.00	1.16	0.00	0.00	0.00	-1.16
		24	1.000	-20.00	1.16	0.00	0.00	0.00	-2.32
	LC2	23	0.000	-0.49	1.45	0.00	0.00	0.00	0.09
		24	1.000	-0.49	1.45	0.00	0.00	0.00	-1.37
	LC3	23	0.000	-24.00	1.54	0.00	0.00	0.00	-1.55
		24	1.000	-24.00	1.54	0.00	0.00	0.00	-3.09
	CO1	23	0.000	-28.35	1.57	0.00	0.00	0.00	-1.58
		24	1.000	-27.00	1.56	0.00	0.00	0.00	-3.15
	CO2	23	0.000	-24.90	3.57	0.00	0.00	0.00	-1.22
		24	1.000	-23.75	3.55	0.00	0.00	0.00	-4.78
	CO3	23	0.000	-50.11	5.27	0.00	0.00	0.00	-2.89
		24	1.000	-48.96	5.21	0.00	0.00	0.00	-8.13
	CO4	23	0.000	-60.15	3.69	0.00	0.00	0.00	-3.74
		24	1.000	-59.00	3.62	0.00	0.00	0.00	-7.40
	CO5	23	0.000	-60.61	5.08	0.00	0.00	0.00	-3.66
		24	1.000	-59.46	5.00	0.00	0.00	0.00	-8.71
	CO6	23	0.000	-21.00	1.16	0.00	0.00	0.00	-1.17
		24	1.000	-20.00	1.15	0.00	0.00	0.00	-2.33
	CO7	23	0.000	-21.50	2.64	0.00	0.00	0.00	-1.09
		24	1.000	-20.50	2.63	0.00	0.00	0.00	-3.72
	CO8	23	0.000	-38.30	3.76	0.00	0.00	0.00	-2.19
		24	1.000	-37.31	3.73	0.00	0.00	0.00	-5.94
	CO9	23	0.000	-45.00	2.73	-0.00	0.00	-0.00	-2.75
		24	1.000	-44.00	2.69	0.00	0.00	0.00	-5.46
	CO10	23	0.000	-45.30	3.64	0.00	0.00	0.00	-2.70
		24	1.000	-44.31	3.59	-0.00	0.00	-0.00	-6.32
	CO11	23	0.000	-21.00	1.16	0.00	0.00	0.00	-1.17
		24	1.000	-20.00	1.15	0.00	0.00	0.00	-2.33
	CO12	23	0.000	-21.10	1.46	0.00	0.00	0.00	-1.15
		24	1.000	-20.10	1.45	0.00	0.00	0.00	-2.61
	CO13	23	0.000	-25.90	1.77	0.00	0.00	0.00	-1.47
		24	1.000	-24.90	1.76	0.00	0.00	0.00	-3.23
	CO14	23	0.000	-30.60	1.79	0.00	0.00	0.00	-1.80
		24	1.000	-29.60	1.77	0.00	0.00	0.00	-3.58
	CO15	23	0.000	-21.00	1.16	0.00	0.00	0.00	-1.17
		24	1.000	-20.00	1.15	0.00	0.00	0.00	-2.33
	CO16	23	0.000	-25.80	1.47	0.00	0.00	0.00	-1.48
		24	1.000	-24.80	1.46	0.00	0.00	0.00	-2.95
	CO17	23	0.000	-54.31	5.52	0.00	0.00	0.00	-3.13
		24	1.000	-52.97	5.45	-0.00	0.00	-0.00	-8.61
23	LC1	24	0.000	-20.00	1.16	0.00	0.00	0.00	-2.32
		25	1.000	-19.00	1.16	0.00	0.00	0.00	-3.48
	LC2	24	0.000	-0.49	1.45	0.00	0.00	0.00	-1.37
		25	1.000	-0.49	1.45	0.00	0.00	0.00	-2.82
	LC3	24	0.000	-24.00	1.54	0.00	0.00	0.00	-3.09
		25	1.000	-24.00	1.54	0.00	0.00	0.00	-4.64
	CO1	24	0.000	-27.00	1.56	0.00	0.00	0.00	-3.15
		25	1.000	-25.65	1.54	0.00	0.00	0.00	-4.70
	CO2	24	0.000	-23.75	3.55	0.00	0.00	0.00	-4.78
		25	1.000	-22.60	3.52	-0.00	0.00	-0.00	-8.32
	CO3	24	0.000	-48.96	5.21	0.00	0.00	0.00	-8.13
		25	1.000	-47.83	5.10	0.00	0.00	0.00	-13.29
	CO4	24	0.000	-59.00	3.62	0.00	0.00	0.00	-7.40
		25	1.000	-57.86	3.51	0.00	0.00	0.00	-10.97
	CO5	24	0.000	-59.46	5.00	0.00	0.00	0.00	-8.71
		25	1.000	-58.33	4.87	-0.00	0.00	-0.00	-13.65



RESULTS

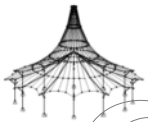
Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
23	CO6	24	0.000	-20.00	1.15	0.00	0.00	0.00	-2.33
		25	1.000	-19.00	1.14	-0.00	0.00	-0.00	-3.48
	CO7	24	0.000	-20.50	2.63	0.00	0.00	0.00	-3.72
		25	1.000	-19.50	2.61	0.00	0.00	0.00	-6.35
	CO8	24	0.000	-37.31	3.73	0.00	0.00	0.00	-5.94
		25	1.000	-36.31	3.67	0.00	0.00	0.00	-9.64
	CO9	24	0.000	-44.00	2.69	0.00	0.00	0.00	-5.46
		25	1.000	-43.00	2.63	0.00	0.00	0.00	-8.12
	CO10	24	0.000	-44.31	3.59	-0.00	0.00	-0.00	-6.32
		25	1.000	-43.31	3.52	0.00	0.00	0.00	-9.88
	CO11	24	0.000	-20.00	1.15	0.00	0.00	0.00	-2.33
		25	1.000	-19.00	1.14	-0.00	0.00	-0.00	-3.48
	CO12	24	0.000	-20.10	1.45	0.00	0.00	0.00	-2.61
		25	1.000	-19.10	1.44	0.00	0.00	0.00	-4.05
24	CO13	24	0.000	-24.90	1.76	0.00	0.00	0.00	-3.23
		25	1.000	-23.90	1.74	0.00	0.00	0.00	-4.98
	CO14	24	0.000	-29.60	1.77	0.00	0.00	0.00	-3.58
		25	1.000	-28.60	1.74	0.00	0.00	0.00	-5.34
	CO15	24	0.000	-20.00	1.15	0.00	0.00	0.00	-2.33
		25	1.000	-19.00	1.14	-0.00	0.00	-0.00	-3.48
	CO16	24	0.000	-24.80	1.46	0.00	0.00	0.00	-2.95
		25	1.000	-23.80	1.44	0.00	0.00	0.00	-4.41
	CO17	24	0.000	-52.97	5.45	-0.00	0.00	-0.00	-8.61
		25	1.000	-51.63	5.32	-0.00	0.00	-0.00	-14.01
	LC1	25	0.000	-19.00	1.16	0.00	0.00	0.00	-3.48
		3	1.000	-18.00	1.16	0.00	0.00	0.00	-4.63
	LC2	25	0.000	-0.49	1.45	0.00	0.00	0.00	-2.82
		3	1.000	-0.49	1.45	0.00	0.00	0.00	-4.27
	LC3	25	0.000	-24.00	1.54	0.00	0.00	0.00	-4.64
		3	1.000	-24.00	1.54	0.00	0.00	0.00	-6.18
	CO1	25	0.000	-25.65	1.54	0.00	0.00	0.00	-4.70
		3	1.000	-24.30	1.51	0.00	0.00	0.00	-6.22
	CO2	25	0.000	-22.60	3.52	-0.00	0.00	-0.00	-8.32
		3	1.000	-21.46	3.47	-0.00	0.00	-0.00	-11.81
	CO3	25	0.000	-47.83	5.10	0.00	0.00	0.00	-13.29
		3	1.000	-46.69	4.95	-0.00	0.00	-0.00	-18.32
	CO4	25	0.000	-57.86	3.51	0.00	0.00	0.00	-10.97
		3	1.000	-56.72	3.37	0.00	0.00	0.00	-14.42
	CO5	25	0.000	-58.33	4.87	-0.00	0.00	-0.00	-13.65
		3	1.000	-57.19	4.68	0.00	0.00	0.00	-18.42
	CO6	25	0.000	-19.00	1.14	-0.00	0.00	-0.00	-3.48
		3	1.000	-18.00	1.13	0.00	0.00	0.00	-4.61
	CO7	25	0.000	-19.50	2.61	0.00	0.00	0.00	-6.35
		3	1.000	-18.51	2.58	0.00	0.00	0.00	-8.94
	CO8	25	0.000	-36.31	3.67	0.00	0.00	0.00	-9.64
		3	1.000	-35.32	3.59	0.00	0.00	0.00	-13.27
	CO9	25	0.000	-43.00	2.63	0.00	0.00	0.00	-8.12
		3	1.000	-42.01	2.55	0.00	0.00	0.00	-10.71
	CO10	25	0.000	-43.31	3.52	0.00	0.00	0.00	-9.88
		3	1.000	-42.32	3.42	0.00	0.00	0.00	-13.35
	CO11	25	0.000	-19.00	1.14	-0.00	0.00	-0.00	-3.48
		3	1.000	-18.00	1.13	0.00	0.00	0.00	-4.61
	CO12	25	0.000	-19.10	1.44	0.00	0.00	0.00	-4.05
		3	1.000	-18.10	1.42	0.00	0.00	0.00	-5.48
	CO13	25	0.000	-23.90	1.74	0.00	0.00	0.00	-4.98
		3	1.000	-22.90	1.71	-0.00	0.00	-0.00	-6.71
	CO14	25	0.000	-28.60	1.74	0.00	0.00	0.00	-5.34
		3	1.000	-27.60	1.71	0.00	0.00	0.00	-7.06



Project: Assignment Week 6

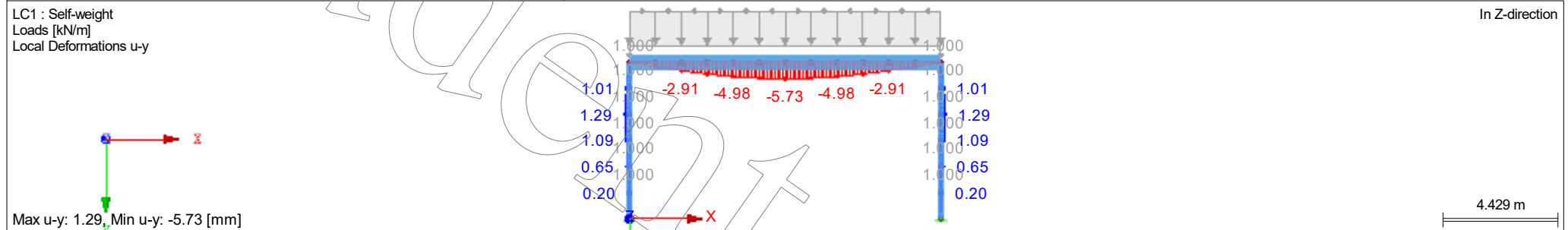
Model: B3_Frame

Date: 18/10/2021

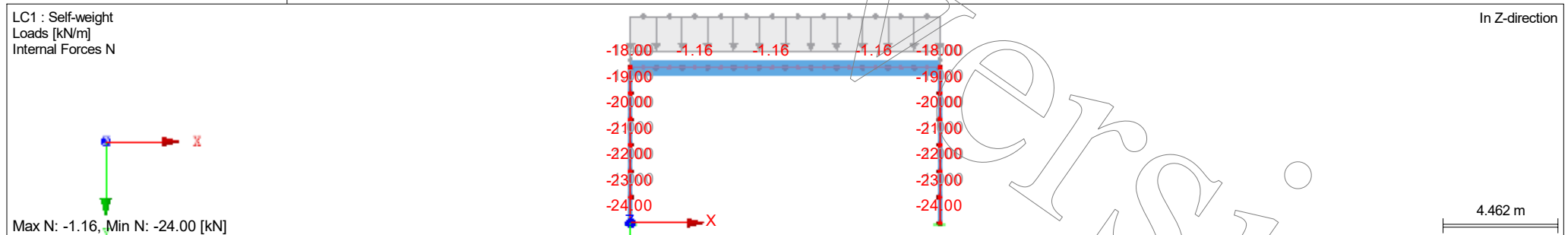
4.12 CROSS-SECTIONS - INTERNAL FORCES

Member No.	LC/CO	Node No.	Location x [m]	Forces [kN]			Moments [kNm]		
				N	V _y	V _z	M _T	M _y	M _z
24	CO15	25	0.000	-19.00	1.14	-0.00	0.00	-0.00	-3.48
		3	1.000	-18.00	1.13	0.00	0.00	0.00	-4.61
	CO16	25	0.000	-23.80	1.44	0.00	0.00	0.00	-4.41
		3	1.000	-22.80	1.42	-0.00	0.00	-0.00	-5.84
	CO17	25	0.000	-51.63	5.32	-0.00	0.00	-0.00	-14.01
		3	1.000	-50.30	5.15	0.00	0.00	0.00	-19.25

LOCAL DEFORMATIONS u_y



INTERNAL FORCES N



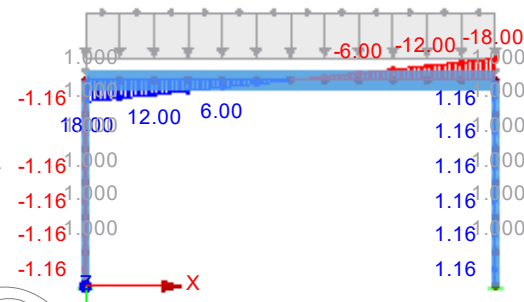
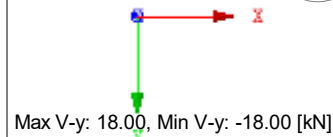
Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

INTERNAL FORCES V_y

LC1 : Self-weight
Loads [kN/m]
Internal Forces V_y

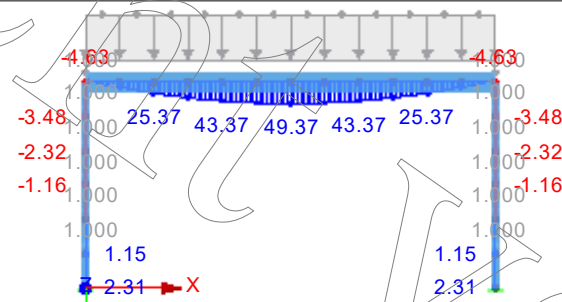
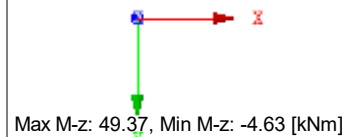


In Z-direction

4.429 m

INTERNAL FORCES M_z

LC1 : Self-weight
Loads [kN/m]
Internal Forces M_z

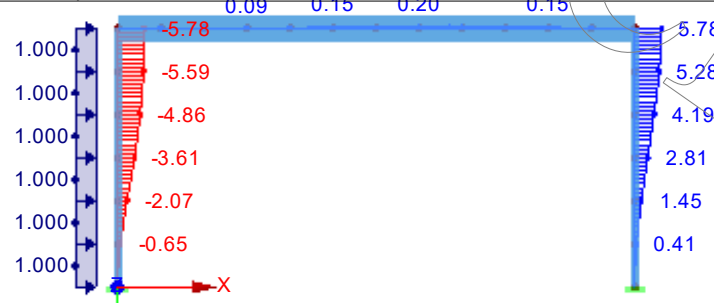
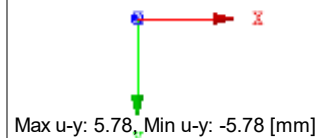


In Z-direction

4.429 m

LOCAL DEFORMATIONS u_y

LC2 : Wind
Loads [kN/m]
Local Deformations u_y



In Z-direction

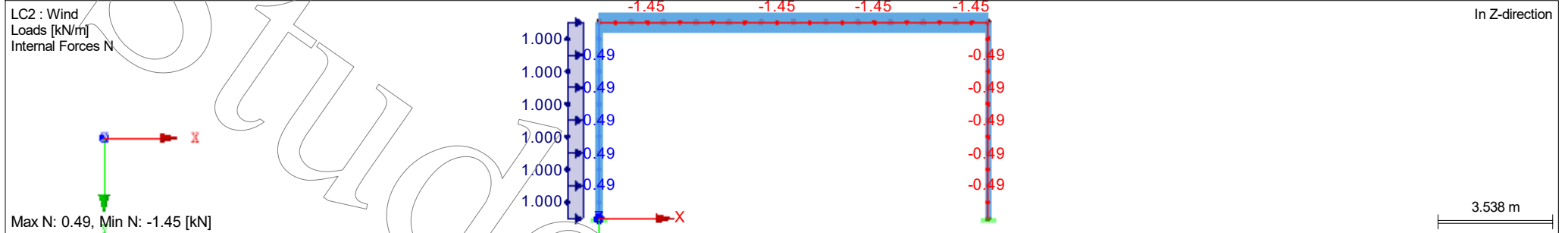
3.512 m

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

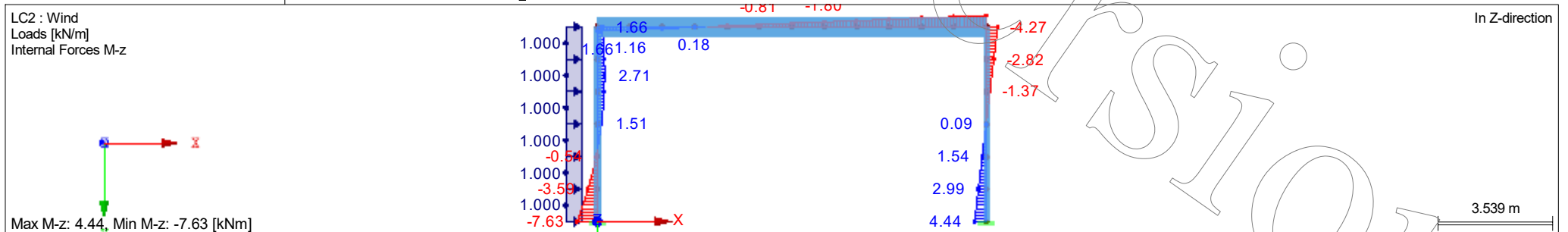
INTERNAL FORCES N



INTERNAL FORCES V_y



INTERNAL FORCES M_z



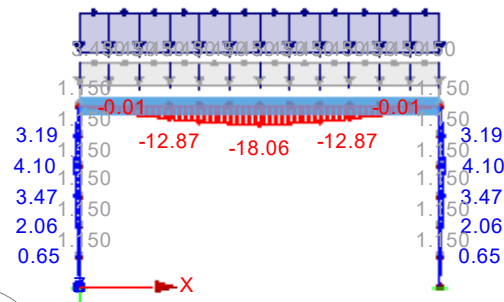
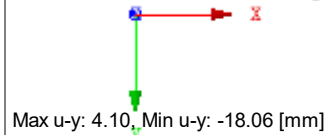
Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

LOCAL DEFORMATIONS u_y

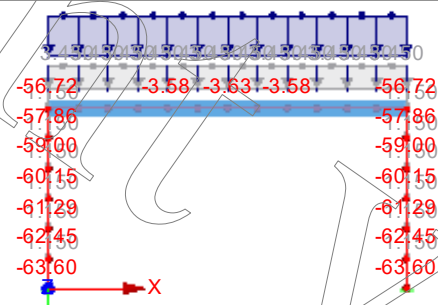
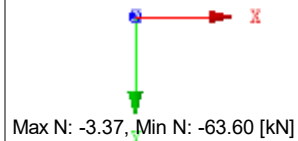
CO4 : 1.15G + 1.5Qs
Loads [kN/m]
Local Deformations u_y



In Z-direction

INTERNAL FORCES N

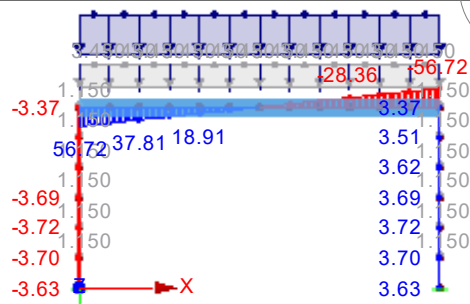
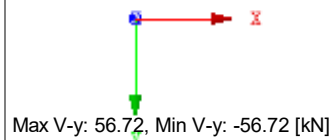
CO4 : 1.15G + 1.5Qs
Loads [kN/m]
Internal Forces N



In Z-direction

INTERNAL FORCES V_y

CO4 : 1.15G + 1.5Qs
Loads [kN/m]
Internal Forces V_y



In Z-direction

RESULTS

Project: Assignment Week 6

Model: B3_Frame

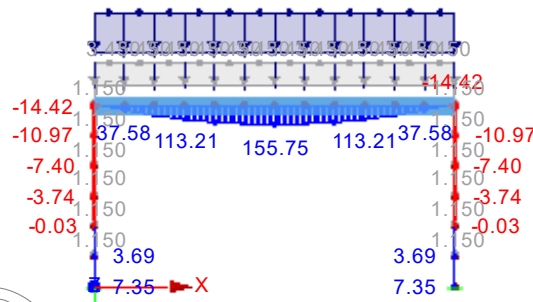
Date: 18/10/2021

INTERNAL FORCES M_z

CO4 : 1.15G + 1.5Qs
Loads [kN/m]
Internal Forces M-z

In Z-direction

Max M-z: 155.75, Min M-z: -14.42 [kNm]



4.1 NODES - SUPPORT FORCES

Result Combinations

Node No.	RC		Support Forces [kN]			Support Moments [kNm]			
			P_x	P_y	P_z	M_x	M_y	M_z	
1*	RC1	Max	-26.84	5.50	0.00	0.00	0.00	8.91	ULS (STR/GEO) - Permanent / transient - Eq. 6.10a and 6.10b
		Min	-63.60	-3.63	0.00	0.00	0.00	-7.35	ULS (STR/GEO) - Permanent / transient - Eq. 6.10a and 6.10b
	RC2	Max	-23.50	3.39	0.00	0.00	0.00	5.39	SLS - Characteristic
		Min	-48.00	-2.69	0.00	0.00	0.00	-5.43	SLS - Characteristic
	RC3	Max	-23.90	-0.25	0.00	0.00	0.00	-0.78	SLS - Frequent
		Min	-33.60	-1.77	0.00	0.00	0.00	-3.56	SLS - Frequent
	RC4	Max	-24.00	-1.15	0.00	0.00	0.00	-2.32	SLS - Quasi-permanent
		Min	-28.80	-1.46	0.00	0.00	0.00	-2.94	SLS - Quasi-permanent
4*	RC1	Max	64.07	-1.56	0.00	0.00	0.00	12.83	ULS (STR/GEO) - Permanent / transient - Eq. 6.10a and 6.10b
		Min	28.36	-5.11	0.00	0.00	0.00	3.13	ULS (STR/GEO) - Permanent / transient - Eq. 6.10a and 6.10b
	RC2	Max	48.31	-1.15	0.00	0.00	0.00	9.05	SLS - Characteristic
		Min	24.00	-3.68	0.00	0.00	0.00	2.32	SLS - Characteristic
	RC3	Max	33.60	-1.15	0.00	0.00	0.00	3.84	SLS - Frequent
		Min	24.00	-1.77	0.00	0.00	0.00	2.32	SLS - Frequent
	RC4	Max	28.80	-1.15	0.00	0.00	0.00	2.94	SLS - Quasi-permanent
		Min	24.00	-1.46	0.00	0.00	0.00	2.32	SLS - Quasi-permanent

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases	
				N	V _y	V _z	M _T	M _y	M _z		
2	Section No. 1: T-Rectangle 0.6/0.2										
	RC1	5	0.000	Max N	▷ -1.52	20.25	-0.00	0.00	0.00	16.06	CO 1
				Min N	▷ -4.98	37.49	0.00	0.00	0.00	32.30	CO 3
				Max V _y	▷ -3.41	47.27	0.00	0.00	0.00	37.58	CO 4
				Min V _y	▷ -3.48	16.50	0.00	0.00	0.00	15.50	CO 2
				Max V _z	▷ -3.48	16.50	0.00	0.00	0.00	15.50	CO 2
				Min V _z	▷ -1.52	20.25	-0.00	0.00	0.00	16.06	CO 1
				Max M _T	-1.52	20.25	-0.00	0.00	0.00	16.06	CO 1



RESULTS

Project: Assignment Week 6

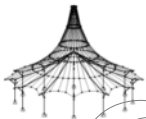
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]			Result	Corresponding
					N	V _y	V _z	M _T	M _y	M _z	Load Cases	
2	RC1	2	1.000	Min M _T	-1.52	20.25	-0.00	0.00	0.00	16.06	CO 1	
				Max M _y	-1.52	20.25	-0.00	0.00	0.00	16.06	CO 1	
				Min M _y	-3.48	16.50	0.00	0.00	0.00	15.50	CO 2	
				Max M _z	-4.72	46.80	0.00	0.00	0.00	38.74	CO 5	
				Min M _z	-3.48	16.50	0.00	0.00	0.00	15.50	CO 2	
				Max N	-1.51	24.30	0.00	0.00	0.00	-6.22	CO 1	
				Min N	-4.95	45.14	0.00	0.00	0.00	-9.02	CO 3	
				Max V _y	-3.37	56.72	0.00	0.00	0.00	-14.42	CO 4	
				Min V _y	-3.47	19.95	0.00	0.00	0.00	-2.73	CO 2	
				Max V _z	-1.51	24.30	0.00	0.00	0.00	-6.22	CO 1	
				Min V _z	-4.67	56.25	-0.00	0.00	-0.00	-12.79	CO 5	
				Max M _T	-1.51	24.30	0.00	0.00	0.00	-6.22	CO 1	
				Min M _T	-1.51	24.30	0.00	0.00	0.00	-6.22	CO 1	
				Max M _y	-1.51	24.30	0.00	0.00	0.00	-6.22	CO 1	
				Min M _y	-4.67	56.25	-0.00	0.00	-0.00	-12.79	CO 5	
				Max M _z	-3.47	19.95	0.00	0.00	0.00	-2.73	CO 2	
				Min M _z	-3.37	56.72	0.00	0.00	0.00	-14.42	CO 4	
	RC2	5	0.000	Max N	-1.13	15.00	0.00	0.00	0.00	11.89	CO 6	
				Min N	-3.60	28.50	-0.00	0.00	0.00	24.26	CO 8	
				Max V _y	-2.57	35.01	0.00	0.00	0.00	27.80	CO 9	
				Min V _y	-2.59	14.50	-0.00	0.00	0.00	13.09	CO 7	
				Max V _z	-1.13	15.00	0.00	0.00	0.00	11.89	CO 6	
				Min V _z	-3.60	28.50	-0.00	0.00	0.00	24.26	CO 8	
				Max M _T	-1.13	15.00	0.00	0.00	0.00	11.89	CO 6	
				Min M _T	-1.13	15.00	0.00	0.00	0.00	11.89	CO 6	
				Max M _y	-3.60	28.50	-0.00	0.00	0.00	24.26	CO 8	
				Min M _y	-1.13	15.00	0.00	0.00	0.00	11.89	CO 6	
				Max M _z	-3.45	34.70	0.00	0.00	0.00	28.55	CO 10	
				Min M _z	-1.13	15.00	0.00	0.00	0.00	11.89	CO 6	
		2	1.000	Max N	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 6	
				Min N	-3.58	34.30	0.00	0.00	0.00	-7.14	CO 8	
				Max V _y	-2.55	42.01	0.00	0.00	0.00	-10.71	CO 9	
				Min V _y	-2.58	17.50	0.00	0.00	0.00	-2.91	CO 7	
				Max V _z	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 6	
				Min V _z	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 6	
				Max M _T	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 6	
				Min M _T	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 6	
				Max M _y	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 6	
				Min M _y	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 6	
				Max M _z	-2.58	17.50	0.00	0.00	0.00	-2.91	CO 7	
				Min M _z	-2.55	42.01	0.00	0.00	0.00	-10.71	CO 9	
	RC3	5	0.000	Max N	-1.13	15.00	0.00	0.00	0.00	11.89	CO 11	
				Min N	-1.72	23.00	-0.00	0.00	0.00	18.24	CO 14	
				Max V _y	-1.72	23.00	-0.00	0.00	0.00	18.24	CO 14	
				Min V _y	-1.42	14.90	0.00	0.00	0.00	12.13	CO 12	
				Max V _z	-1.13	15.00	0.00	0.00	0.00	11.89	CO 11	
				Min V _z	-1.72	23.00	-0.00	0.00	0.00	18.24	CO 14	
				Max M _T	-1.13	15.00	0.00	0.00	0.00	11.89	CO 11	
				Min M _T	-1.13	15.00	0.00	0.00	0.00	11.89	CO 11	
				Max M _y	-1.72	23.00	-0.00	0.00	0.00	18.24	CO 14	
				Min M _y	-1.13	15.00	0.00	0.00	0.00	11.89	CO 11	
				Max M _z	-1.72	23.00	-0.00	0.00	0.00	18.24	CO 14	
				Min M _z	-1.13	15.00	0.00	0.00	0.00	11.89	CO 11	
Max N				-1.13	15.00	0.00	0.00	0.00	11.89	CO 11		
Min N				-1.72	23.00	-0.00	0.00	0.00	18.24	CO 14		
Max V _y				-1.72	23.00	-0.00	0.00	0.00	18.24	CO 14		
Min V _y				-1.42	14.90	0.00	0.00	0.00	12.13	CO 12		



RESULTS

Project: Assignment Week 6

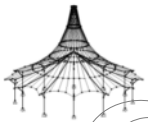
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases	
				N	V _y	V _z	M _T	M _y	M _z		
2	RC3	2	1.000	Max N	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 11
				Min N	-1.71	22.70	0.00	0.00	0.00	-5.50	CO 13
				Max V _y	-1.71	27.60	0.00	0.00	0.00	-7.06	CO 14
				Min V _y	-1.42	17.90	0.00	0.00	0.00	-4.27	CO 12
				Max V _z	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 11
				Min V _z	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 11
				Max M _T	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 11
				Min M _T	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 11
				Max M _y	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 11
				Min M _y	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 11
				Max M _z	-1.42	17.90	0.00	0.00	0.00	-4.27	CO 12
				Min M _z	-1.71	27.60	0.00	0.00	0.00	-7.06	CO 14
	RC4	5	0.000	Max N	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
				Min N	-1.43	19.00	-0.00	0.00	0.00	15.06	CO 16
				Max V _y	-1.43	19.00	-0.00	0.00	0.00	15.06	CO 16
				Min V _y	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
				Max V _z	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
				Min V _z	-1.43	19.00	-0.00	0.00	0.00	15.06	CO 16
				Max M _T	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
				Min M _T	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
				Max M _y	-1.43	19.00	-0.00	0.00	0.00	15.06	CO 16
				Min M _y	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
				Max M _z	-1.43	19.00	-0.00	0.00	0.00	15.06	CO 16
				Min M _z	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
4		2	1.000	Max N	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 15
				Min N	-1.42	22.80	-0.00	0.00	-0.00	-5.84	CO 16
				Max V _y	-1.42	22.80	-0.00	0.00	-0.00	-5.84	CO 16
				Min V _y	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 15
				Max V _z	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 15
				Min V _z	-1.42	22.80	-0.00	0.00	-0.00	-5.84	CO 16
				Max M _T	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 15
				Min M _T	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 15
				Max M _y	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 15
				Min M _y	-1.42	22.80	-0.00	0.00	-0.00	-5.84	CO 16
				Max M _z	-1.13	18.00	0.00	0.00	0.00	-4.61	CO 15
				Min M _z	-1.42	22.80	-0.00	0.00	-0.00	-5.84	CO 16
	RC1	6	0.000	Max N	-1.53	16.20	0.00	0.00	0.00	34.28	CO 1
				Min N	-5.02	29.84	-0.00	0.00	0.00	65.96	CO 3
				Max V _y	-3.47	37.81	0.00	0.00	0.00	80.12	CO 4
				Min V _y	-3.49	13.05	0.00	0.00	0.00	30.27	CO 2
				Max V _z	-1.53	16.20	0.00	0.00	0.00	34.28	CO 1
				Min V _z	-5.02	29.84	-0.00	0.00	0.00	65.96	CO 3
				Max M _T	-1.53	16.20	0.00	0.00	0.00	34.28	CO 1
				Min M _T	-1.53	16.20	0.00	0.00	0.00	34.28	CO 1
				Max M _y	-5.02	29.84	-0.00	0.00	0.00	65.96	CO 3
				Min M _y	-1.53	16.20	0.00	0.00	0.00	34.28	CO 1
				Max M _z	-4.78	37.35	0.00	0.00	0.00	80.82	CO 5
				Min M _z	-3.49	13.05	0.00	0.00	0.00	30.27	CO 2
		5	1.000	Max N	-1.52	20.25	-0.00	0.00	0.00	16.06	CO 1
				Min N	-4.98	37.49	0.00	0.00	0.00	32.30	CO 3
				Max V _y	-3.41	47.27	0.00	0.00	0.00	37.58	CO 4
				Min V _y	-3.48	16.50	0.00	0.00	0.00	15.50	CO 2
				Max V _z	-3.48	16.50	0.00	0.00	0.00	15.50	CO 2
				Min V _z	-3.48	16.50	0.00	0.00	0.00	15.50	CO 2



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]				Moments [kNm]			Corresponding		
				N	V _y	V _z	M _T	M _y	M _z	Load Cases			
4	RC1	6	0.000	Min V _z	-1.52	20.25	▷	-0.00	0.00		16.06	CO 1	
				Max M _T	-1.52	20.25		▷	0.00	0.00		16.06	CO 1
				Min M _T	-1.52	20.25		▷	0.00	0.00		16.06	CO 1
				Max M _y	-1.52	20.25		0.00	0.00	▷	16.06	CO 1	
				Min M _y	-3.48	16.50		0.00	0.00	▷	15.50	CO 2	
				Max M _z	-4.72	46.80		0.00	0.00	▷	38.74	CO 5	
	Min M _z			-3.48	16.50		0.00	0.00	▷	15.50	CO 2		
	Max N			-1.14	12.00		0.00	0.00		25.39	CO 6		
	Min N			-3.63	22.70		0.00	0.00		49.86	CO 8		
	Max V _y			-2.61	28.01	▷	0.00	0.00		59.30	CO 9		
	Min V _y			-2.59	11.50	▷	0.00	0.00		26.09	CO 7		
	Max V _z			-2.59	11.50	▷	0.00	0.00		26.09	CO 7		
	Min V _z			-1.14	12.00		0.00	0.00		25.39	CO 6		
	Max M _T			-1.14	12.00		-0.00	0.00		25.39	CO 6		
	Min M _T			-1.14	12.00		-0.00	0.00		25.39	CO 6		
	Max M _y			-1.14	12.00		-0.00	0.00	▷	25.39	CO 6		
	Min M _y			-2.59	11.50		0.00	0.00	▷	26.09	CO 7		
	Max M _z			-3.48	27.70		0.00	0.00	▷	59.76	CO 10		
	Min M _z	-1.14	12.00		-0.00	0.00	▷	25.39	CO 6				
	Max N	-1.13	15.00		0.00	0.00		11.89	CO 6				
	Min N	-3.60	28.50		-0.00	0.00		24.26	CO 8				
	Max V _y	-2.57	35.01	▷	0.00	0.00		27.80	CO 9				
	Min V _y	-2.59	14.50	▷	-0.00	0.00		13.09	CO 7				
	Max V _z	-1.13	15.00	▷	0.00	0.00		11.89	CO 6				
	Min V _z	-3.60	28.50	▷	-0.00	0.00		24.26	CO 8				
	Max M _T	-1.13	15.00		0.00	0.00	▷	11.89	CO 6				
	Min M _T	-1.13	15.00		0.00	0.00	▷	11.89	CO 6				
	Max M _y	-3.60	28.50		-0.00	0.00	▷	24.26	CO 8				
	Min M _y	-1.13	15.00		0.00	0.00	▷	11.89	CO 6				
	Max M _z	-3.45	34.70		0.00	0.00	▷	28.55	CO 10				
	Min M _z	-1.13	15.00		0.00	0.00	▷	11.89	CO 6				
	Max N	-1.14	12.00		-0.00	0.00		25.39	CO 11				
	Min N	-1.73	18.40		0.00	0.00		38.95	CO 14				
	Max V _y	-1.73	18.40	▷	0.00	0.00		38.95	CO 14				
	Min V _y	-1.43	11.90	▷	0.00	0.00		25.53	CO 12				
	Max V _z	-1.43	11.90	▷	0.00	0.00		25.53	CO 12				
	Min V _z	-1.73	15.10	▷	-0.00	0.00		32.31	CO 13				
	Max M _T	-1.14	12.00		-0.00	0.00	▷	25.39	CO 11				
	Min M _T	-1.14	12.00		-0.00	0.00	▷	25.39	CO 11				
	Max M _y	-1.73	15.10		-0.00	0.00	▷	32.31	CO 13				
	Min M _y	-1.43	11.90		0.00	0.00	▷	25.53	CO 12				
	Max M _z	-1.73	18.40		0.00	0.00	▷	38.95	CO 14				
	Min M _z	-1.14	12.00		-0.00	0.00	▷	25.39	CO 11				
	Max N	-1.13	15.00		0.00	0.00		11.89	CO 11				
	Min N	-1.72	23.00		-0.00	0.00		18.24	CO 14				
	Max V _y	-1.72	23.00	▷	-0.00	0.00		18.24	CO 14				
	Min V _y	-1.42	14.90	▷	0.00	0.00		12.13	CO 12				
	Max V _z	-1.13	15.00	▷	0.00	0.00		11.89	CO 11				
	Min V _z	-1.72	23.00	▷	-0.00	0.00		18.24	CO 14				
	Max M _T	-1.13	15.00		0.00	0.00	▷	11.89	CO 11				
	Min M _T	-1.13	15.00		0.00	0.00	▷	11.89	CO 11				
	Max M _y	-1.72	23.00		-0.00	0.00	▷	18.24	CO 14				
	Min M _y	-1.13	15.00		0.00	0.00	▷	11.89	CO 11				



Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases	
				N	V _y	V _z	M _T	M _y	M _z		
4	RC3	6	0.000	Max M _z	-1.72	23.00	-0.00	0.00	0.00	18.24	CO 14
				Min M _z	-1.13	15.00	0.00	0.00	0.00	11.89	CO 11
				Max N	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Min N	-1.44	15.20	0.00	0.00	0.00	32.17	CO 16
				Max V _y	-1.44	15.20	0.00	0.00	0.00	32.17	CO 16
				Min V _y	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Max V _z	-1.44	15.20	0.00	0.00	0.00	32.17	CO 16
				Min V _z	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Max M _T	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Min M _T	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Max M _y	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Min M _y	-1.44	15.20	0.00	0.00	0.00	32.17	CO 16
	RC4	5	1.000	Max M _z	-1.44	15.20	0.00	0.00	0.00	32.17	CO 16
				Min M _z	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Max N	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
				Min N	-1.43	19.00	-0.00	0.00	0.00	15.06	CO 16
				Max V _y	-1.43	19.00	-0.00	0.00	0.00	15.06	CO 16
				Min V _y	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
				Max V _z	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
				Min V _z	-1.43	19.00	-0.00	0.00	0.00	15.06	CO 16
				Max M _T	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
				Min M _T	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
				Max M _y	-1.43	19.00	-0.00	0.00	0.00	15.06	CO 16
				Min M _y	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
5	RC1	7	0.000	Max M _z	-1.43	19.00	-0.00	0.00	0.00	15.06	CO 16
				Min M _z	-1.13	15.00	0.00	0.00	0.00	11.89	CO 15
				Max N	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
				Min N	-5.06	22.19	0.00	0.00	0.00	91.98	CO 3
				Max V _y	-3.53	28.36	0.00	0.00	0.00	113.21	CO 4
				Min V _y	-3.49	9.60	0.00	0.00	0.00	41.59	CO 2
				Max V _z	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
				Min V _z	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
				Max M _T	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
				Min M _T	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
				Max M _y	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
				Min M _y	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
	RC2	7	0.000	Max M _z	-4.84	27.90	0.00	0.00	0.00	113.44	CO 5
				Min M _z	-3.49	9.60	0.00	0.00	0.00	41.59	CO 2
				Max N	-1.53	16.20	0.00	0.00	0.00	34.28	CO 1
				Min N	-5.02	29.84	-0.00	0.00	0.00	65.96	CO 3
				Max V _y	-3.47	37.81	0.00	0.00	0.00	80.12	CO 4
				Min V _y	-3.49	13.05	0.00	0.00	0.00	30.27	CO 2
				Max V _z	-1.53	16.20	0.00	0.00	0.00	34.28	CO 1
				Min V _z	-5.02	29.84	-0.00	0.00	0.00	65.96	CO 3
				Max M _T	-1.53	16.20	0.00	0.00	0.00	34.28	CO 1
				Min M _T	-1.53	16.20	0.00	0.00	0.00	34.28	CO 1
				Max M _y	-5.02	29.84	-0.00	0.00	0.00	65.96	CO 3
				Min M _y	-1.53	16.20	0.00	0.00	0.00	34.28	CO 1



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]				Moments [kNm]			Corresponding Load Cases
				N	V _y	V _z	M _T	M _y	M _z		
5	RC2	6	1.000	Min V _y	-2.60	8.50	-0.00	0.00	0.00	36.09	CO 7
				Max V _z	-1.15	9.00	0.00	0.00	0.00	35.89	CO 6
				Min V _z	-2.64	21.01	-0.00	0.00	0.00	83.81	CO 9
				Max M _T	-1.15	9.00	0.00	0.00	0.00	35.89	CO 6
				Min M _T	-1.15	9.00	0.00	0.00	0.00	35.89	CO 6
				Max M _y	-3.51	20.70	-0.00	0.00	0.00	83.96	CO 10
				Min M _y	-1.15	9.00	0.00	0.00	0.00	35.89	CO 6
				Max M _z	-3.51	20.70	-0.00	0.00	0.00	83.96	CO 10
				Min M _z	-1.15	9.00	0.00	0.00	0.00	35.89	CO 6
				Max N	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 6
				Min N	-3.63	22.70	0.00	0.00	0.00	49.86	CO 8
				Max V _y	-2.61	28.01	0.00	0.00	0.00	59.30	CO 9
				Min V _y	-2.59	11.50	0.00	0.00	0.00	26.09	CO 7
				Max V _z	-2.59	11.50	0.00	0.00	0.00	26.09	CO 7
				Min V _z	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 6
				Max M _T	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 6
				Min M _T	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 6
				Max M _y	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 6
				Min M _y	-2.59	11.50	0.00	0.00	0.00	26.09	CO 7
				Max M _z	-3.48	27.70	0.00	0.00	0.00	59.76	CO 10
				Min M _z	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 6
	RC3	7	0.000	Max N	-1.15	9.00	0.00	0.00	0.00	35.89	CO 11
				Min N	-1.75	13.80	0.00	0.00	0.00	55.05	CO 14
				Max V _y	-1.75	13.80	0.00	0.00	0.00	55.05	CO 14
				Min V _y	-1.44	8.90	-0.00	0.00	0.00	35.93	CO 12
				Max V _z	-1.15	9.00	0.00	0.00	0.00	35.89	CO 11
				Min V _z	-1.44	8.90	-0.00	0.00	0.00	35.93	CO 12
				Max M _T	-1.15	9.00	0.00	0.00	0.00	35.89	CO 11
				Min M _T	-1.15	9.00	0.00	0.00	0.00	35.89	CO 11
				Max M _y	-1.44	8.90	-0.00	0.00	0.00	35.93	CO 12
				Min M _y	-1.15	9.00	0.00	0.00	0.00	35.89	CO 11
				Max M _z	-1.75	13.80	0.00	0.00	0.00	55.05	CO 14
				Min M _z	-1.15	9.00	0.00	0.00	0.00	35.89	CO 11
		6	1.000	Max N	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 11
				Min N	-1.73	18.40	0.00	0.00	0.00	38.95	CO 14
				Max V _y	-1.73	18.40	0.00	0.00	0.00	38.95	CO 14
				Min V _y	-1.43	11.90	0.00	0.00	0.00	25.53	CO 12
				Max V _z	-1.43	11.90	0.00	0.00	0.00	25.53	CO 12
				Min V _z	-1.73	15.10	-0.00	0.00	0.00	32.31	CO 13
				Max M _T	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 11
				Min M _T	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 11
				Max M _y	-1.73	15.10	-0.00	0.00	0.00	32.31	CO 13
				Min M _y	-1.43	11.90	0.00	0.00	0.00	25.53	CO 12
				Max M _z	-1.73	18.40	0.00	0.00	0.00	38.95	CO 14
				Min M _z	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 11
	RC4	7	0.000	Max N	-1.15	9.00	0.00	0.00	0.00	35.89	CO 15
				Min N	-1.45	11.40	-0.00	0.00	0.00	45.47	CO 16
				Max V _y	-1.45	11.40	-0.00	0.00	0.00	45.47	CO 16
				Min V _y	-1.15	9.00	0.00	0.00	0.00	35.89	CO 15
				Max V _z	-1.15	9.00	0.00	0.00	0.00	35.89	CO 15
				Min V _z	-1.45	11.40	-0.00	0.00	0.00	45.47	CO 16
				Max M _T	-1.15	9.00	0.00	0.00	0.00	35.89	CO 15
				Min M _T	-1.15	9.00	0.00	0.00	0.00	35.89	CO 15



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]			Corresponding Load Cases
					N	V _y	V _z	M _T	M _y	M _z	
5	RC4	6	1.000	Max M _y	-1.45	11.40	-0.00	0.00	0.00	45.47	CO 16
				Min M _y	-1.15	9.00	0.00	0.00	0.00	35.89	CO 15
				Max M _z	-1.45	11.40	-0.00	0.00	0.00	45.47	CO 16
				Min M _z	-1.15	9.00	0.00	0.00	0.00	35.89	CO 15
				Max N	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Min N	-1.44	15.20	0.00	0.00	0.00	32.17	CO 16
				Max V _y	-1.44	15.20	0.00	0.00	0.00	32.17	CO 16
				Min V _y	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Max V _z	-1.44	15.20	0.00	0.00	0.00	32.17	CO 16
				Min V _z	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Max M _T	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Min M _T	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Max M _y	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Min M _y	-1.44	15.20	0.00	0.00	0.00	32.17	CO 16
				Max M _z	-1.44	15.20	0.00	0.00	0.00	32.17	CO 16
				Min M _z	-1.14	12.00	-0.00	0.00	0.00	25.39	CO 15
				Max N	-1.55	8.10	-0.00	0.00	0.00	58.59	CO 1
				Min N	-5.09	14.53	0.00	0.00	0.00	110.34	CO 3
				Max V _y	-3.58	18.91	0.00	0.00	0.00	136.84	CO 4
				Min V _y	-3.50	6.15	0.00	0.00	0.00	49.46	CO 2
6	RC1	8	0.000	Max V _z	-3.50	6.15	0.00	0.00	0.00	49.46	CO 2
				Min V _z	-1.55	8.10	-0.00	0.00	0.00	58.59	CO 1
				Max M _T	-1.55	8.10	-0.00	0.00	0.00	58.59	CO 1
				Min M _T	-1.55	8.10	-0.00	0.00	0.00	58.59	CO 1
				Max M _y	-1.55	8.10	-0.00	0.00	0.00	58.59	CO 1
				Min M _y	-3.50	6.15	0.00	0.00	0.00	49.46	CO 2
				Max M _z	-3.58	18.91	0.00	0.00	0.00	136.84	CO 4
				Min M _z	-3.50	6.15	0.00	0.00	0.00	49.46	CO 2
		7	1.000	Max N	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
				Min N	-5.06	22.19	0.00	0.00	0.00	91.98	CO 3
				Max V _y	-3.53	28.36	0.00	0.00	0.00	113.21	CO 4
				Min V _y	-3.49	9.60	0.00	0.00	0.00	41.59	CO 2
				Max V _z	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
				Min V _z	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
				Max M _T	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
				Min M _T	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
				Max M _y	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
				Min M _y	-1.54	12.15	0.00	0.00	0.00	48.46	CO 1
	RC2	8	0.000	Max M _z	-4.84	27.90	0.00	0.00	0.00	113.44	CO 5
				Min M _z	-3.49	9.60	0.00	0.00	0.00	41.59	CO 2
				Max N	-1.15	6.00	0.00	0.00	0.00	43.39	CO 6
				Min N	-3.67	11.09	0.00	0.00	0.00	83.65	CO 8
				Max V _y	-2.67	14.00	-0.00	0.00	0.00	101.32	CO 9
				Min V _y	-2.60	5.50	0.00	0.00	0.00	43.09	CO 7
				Max V _z	-1.15	6.00	0.00	0.00	0.00	43.39	CO 6
				Min V _z	-2.67	14.00	-0.00	0.00	0.00	101.32	CO 9
				Max M _T	-1.15	6.00	0.00	0.00	0.00	43.39	CO 6
				Min M _T	-1.15	6.00	0.00	0.00	0.00	43.39	CO 6
				Max M _y	-2.67	14.00	-0.00	0.00	0.00	101.32	CO 9
				Min M _y	-1.15	6.00	0.00	0.00	0.00	43.39	CO 6
		7	1.000	Max M _z	-2.67	14.00	-0.00	0.00	0.00	101.32	CO 9
				Min M _z	-2.60	5.50	0.00	0.00	0.00	43.09	CO 7
				Max N	-1.15	9.00	0.00	0.00	0.00	35.89	CO 6



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases	
				N	V _y	V _z	M _T	M _y	M _z		
6	RC2			Min N	-3.65	16.90	0.00	0.00	0.00	69.66	CO 8
				Max V _y	-2.64	21.01	-0.00	0.00	0.00	83.81	CO 9
				Min V _y	-2.60	8.50	-0.00	0.00	0.00	36.09	CO 7
				Max V _z	-1.15	9.00	0.00	0.00	0.00	35.89	CO 6
				Min V _z	-2.64	21.01	-0.00	0.00	0.00	83.81	CO 9
				Max M _T	-1.15	9.00	0.00	0.00	0.00	35.89	CO 6
				Min M _T	-1.15	9.00	0.00	0.00	0.00	35.89	CO 6
				Max M _y	-3.51	20.70	-0.00	0.00	0.00	83.96	CO 10
				Min M _y	-1.15	9.00	0.00	0.00	0.00	35.89	CO 6
				Max M _z	-3.51	20.70	-0.00	0.00	0.00	83.96	CO 10
				Min M _z	-1.15	9.00	0.00	0.00	0.00	35.89	CO 6
				Max N	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11
	RC3	8	0.000	Min N	-1.76	9.20	0.00	0.00	0.00	66.55	CO 14
				Max V _y	-1.76	9.20	0.00	0.00	0.00	66.55	CO 14
				Min V _y	-1.44	5.90	0.00	0.00	0.00	43.33	CO 12
				Max V _z	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11
				Min V _z	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11
				Max M _T	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11
				Min M _T	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11
				Max M _y	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11
				Min M _y	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11
				Max M _z	-1.76	9.20	0.00	0.00	0.00	66.55	CO 14
				Min M _z	-1.44	5.90	0.00	0.00	0.00	43.33	CO 12
				Max N	-1.15	9.00	0.00	0.00	0.00	35.89	CO 11
		7	1.000	Min N	-1.75	13.80	0.00	0.00	0.00	55.05	CO 14
				Max V _y	-1.75	13.80	0.00	0.00	0.00	55.05	CO 14
				Min V _y	-1.44	8.90	-0.00	0.00	0.00	35.93	CO 12
				Max V _z	-1.15	9.00	0.00	0.00	0.00	35.89	CO 11
				Min V _z	-1.44	8.90	-0.00	0.00	0.00	35.93	CO 12
				Max M _T	-1.15	9.00	0.00	0.00	0.00	35.89	CO 11
				Min M _T	-1.15	9.00	0.00	0.00	0.00	35.89	CO 11
				Max M _y	-1.44	8.90	-0.00	0.00	0.00	35.93	CO 12
				Min M _y	-1.15	9.00	0.00	0.00	0.00	35.89	CO 11
				Max M _z	-1.75	13.80	0.00	0.00	0.00	55.05	CO 14
				Min M _z	-1.15	9.00	0.00	0.00	0.00	35.89	CO 11
	RC4	8	0.000	Max N	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15
				Min N	-1.46	7.60	-0.00	0.00	0.00	54.97	CO 16
				Max V _y	-1.46	7.60	-0.00	0.00	0.00	54.97	CO 16
				Min V _y	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15
				Max V _z	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15
				Min V _z	-1.46	7.60	-0.00	0.00	0.00	54.97	CO 16
				Max M _T	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15
				Min M _T	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15
				Max M _y	-1.46	7.60	-0.00	0.00	0.00	54.97	CO 16
				Min M _y	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15
				Max M _z	-1.46	7.60	-0.00	0.00	0.00	54.97	CO 16
				Min M _z	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15
		7	1.000	Max N	-1.15	9.00	0.00	0.00	0.00	35.89	CO 15
				Min N	-1.45	11.40	-0.00	0.00	0.00	45.47	CO 16
				Max V _y	-1.45	11.40	-0.00	0.00	0.00	45.47	CO 16
				Min V _y	-1.15	9.00	0.00	0.00	0.00	35.89	CO 15
				Max V _z	-1.15	9.00	0.00	0.00	0.00	35.89	CO 15
				Min V _z	-1.45	11.40	-0.00	0.00	0.00	45.47	CO 16



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]				Moments [kNm]			Corresponding Load Cases
					N	V _y	V _z		M _T	M _y	M _z	
6	RC4			Max M _T	-1.15	9.00	0.00	▷	0.00	0.00	35.89	CO 15
				Min M _T	-1.15	9.00	0.00	▷	0.00	0.00	35.89	CO 15
				Max M _y	-1.45	11.40	-0.00	▷	0.00	0.00	45.47	CO 16
				Min M _y	-1.15	9.00	0.00	▷	0.00	0.00	35.89	CO 15
				Max M _z	-1.45	11.40	-0.00	▷	0.00	0.00	45.47	CO 16
				Min M _z	-1.15	9.00	0.00	▷	0.00	0.00	35.89	CO 15
7	RC1	9	0.000	Max N	-1.56	4.05	0.00	▷	0.00	0.00	64.67	CO 1
				Min N	-5.11	6.88	0.00	▷	0.00	0.00	121.05	CO 3
				Max V _y	-3.61	9.45	0.00	▷	0.00	0.00	151.02	CO 4
				Min V _y	-3.50	2.69	0.00	▷	0.00	0.00	53.88	CO 2
				Max V _z	-1.56	4.05	0.00	▷	0.00	0.00	64.67	CO 1
				Min V _z	-1.56	4.05	0.00	▷	0.00	0.00	64.67	CO 1
				Max M _T	-1.56	4.05	0.00	▷	0.00	0.00	64.67	CO 1
				Min M _T	-1.56	4.05	0.00	▷	0.00	0.00	64.67	CO 1
				Max M _y	-1.56	4.05	0.00	▷	0.00	0.00	64.67	CO 1
				Min M _y	-1.56	4.05	0.00	▷	0.00	0.00	64.67	CO 1
				Max M _z	-3.61	9.45	0.00	▷	0.00	0.00	151.02	CO 4
				Min M _z	-3.50	2.69	0.00	▷	0.00	0.00	53.88	CO 2
		8	1.000	Max N	-1.55	8.10	-0.00	▷	0.00	0.00	58.59	CO 1
				Min N	-5.09	14.53	0.00	▷	0.00	0.00	110.34	CO 3
				Max V _y	-3.58	18.91	0.00	▷	0.00	0.00	136.84	CO 4
				Min V _y	-3.50	6.15	0.00	▷	0.00	0.00	49.46	CO 2
				Max V _z	-3.50	6.15	0.00	▷	0.00	0.00	49.46	CO 2
				Min V _z	-1.55	8.10	-0.00	▷	0.00	0.00	58.59	CO 1
				Max M _T	-1.55	8.10	-0.00	▷	0.00	0.00	58.59	CO 1
				Min M _T	-1.55	8.10	-0.00	▷	0.00	0.00	58.59	CO 1
				Max M _y	-1.55	8.10	-0.00	▷	0.00	0.00	58.59	CO 1
				Min M _y	-3.50	6.15	0.00	▷	0.00	0.00	49.46	CO 2
				Max M _z	-3.58	18.91	0.00	▷	0.00	0.00	136.84	CO 4
				Min M _z	-3.50	6.15	0.00	▷	0.00	0.00	49.46	CO 2
	RC2	9	0.000	Max N	-1.15	3.00	0.00	▷	0.00	0.00	47.89	CO 6
				Min N	-3.68	5.29	0.00	▷	0.00	0.00	91.85	CO 8
				Max V _y	-2.68	7.00	0.00	▷	0.00	0.00	111.82	CO 9
				Min V _y	-2.61	2.50	0.00	▷	0.00	0.00	47.09	CO 7
				Max V _z	-1.15	3.00	0.00	▷	0.00	0.00	47.89	CO 6
				Min V _z	-1.15	3.00	0.00	▷	0.00	0.00	47.89	CO 6
				Max M _T	-1.15	3.00	0.00	▷	0.00	0.00	47.89	CO 6
				Min M _T	-1.15	3.00	0.00	▷	0.00	0.00	47.89	CO 6
				Max M _y	-1.15	3.00	0.00	▷	0.00	0.00	47.89	CO 6
				Min M _y	-1.15	3.00	0.00	▷	0.00	0.00	47.89	CO 6
				Max M _z	-2.68	7.00	0.00	▷	0.00	0.00	111.82	CO 9
				Min M _z	-2.61	2.50	0.00	▷	0.00	0.00	47.09	CO 7
		8	1.000	Max N	-1.15	6.00	0.00	▷	0.00	0.00	43.39	CO 6
				Min N	-3.67	11.09	0.00	▷	0.00	0.00	83.65	CO 8
				Max V _y	-2.67	14.00	-0.00	▷	0.00	0.00	101.32	CO 9
				Min V _y	-2.60	5.50	0.00	▷	0.00	0.00	43.09	CO 7
				Max V _z	-1.15	6.00	0.00	▷	0.00	0.00	43.39	CO 6
				Min V _z	-2.67	14.00	-0.00	▷	0.00	0.00	101.32	CO 9
				Max M _T	-1.15	6.00	0.00	▷	0.00	0.00	43.39	CO 6
				Min M _T	-1.15	6.00	0.00	▷	0.00	0.00	43.39	CO 6
				Max M _y	-2.67	14.00	-0.00	▷	0.00	0.00	101.32	CO 9
				Min M _y	-1.15	6.00	0.00	▷	0.00	0.00	43.39	CO 6
				Max M _z	-2.67	14.00	-0.00	▷	0.00	0.00	101.32	CO 9



RESULTS

Project: Assignment Week 6

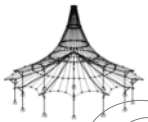
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

1.12 CROSS SECTIONS INTERNAL FORCES												Result Combination	
Member No.	RC	Node No.	Location x [m]		N	Forces [kN]			Moments [kNm]				Corresponding Load Cases
						V _y	V _z	M _T	M _y	M _z			
7	RC2 RC3	9	0.000	Min M _z	-2.60	5.50	0.00	0.00	0.00	43.09	CO 7		
				Max N	-1.15	3.00	0.00	0.00	0.00	47.89	CO 11		
				Min N	-1.77	4.60	0.00	0.00	0.00	73.45	CO 14		
				Max V _y	-1.77	4.60	0.00	0.00	0.00	73.45	CO 14		
				Min V _y	-1.44	2.90	-0.00	0.00	0.00	47.73	CO 12		
				Max V _z	-1.15	3.00	0.00	0.00	0.00	47.89	CO 11		
				Min V _z	-1.44	2.90	-0.00	0.00	0.00	47.73	CO 12		
				Max M _T	-1.15	3.00	0.00	0.00	0.00	47.89	CO 11		
				Min M _T	-1.15	3.00	0.00	0.00	0.00	47.89	CO 11		
				Max M _y	-1.44	2.90	-0.00	0.00	0.00	47.73	CO 12		
				Min M _y	-1.15	3.00	0.00	0.00	0.00	47.89	CO 11		
				Max M _z	-1.77	4.60	0.00	0.00	0.00	73.45	CO 14		
				Min M _z	-1.44	2.90	-0.00	0.00	0.00	47.73	CO 12		
		8	1.000	Max N	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11		
				Min N	-1.76	9.20	0.00	0.00	0.00	66.55	CO 14		
				Max V _y	-1.76	9.20	0.00	0.00	0.00	66.55	CO 14		
				Min V _y	-1.44	5.90	0.00	0.00	0.00	43.33	CO 12		
				Max V _z	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11		
				Min V _z	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11		
				Max M _T	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11		
				Min M _T	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11		
				Max M _y	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11		
				Min M _y	-1.15	6.00	0.00	0.00	0.00	43.39	CO 11		
				Max M _z	-1.76	9.20	0.00	0.00	0.00	66.55	CO 14		
				Min M _z	-1.44	5.90	0.00	0.00	0.00	43.33	CO 12		
	RC4	9	0.000	Max N	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15		
				Min N	-1.46	3.80	0.00	0.00	0.00	60.67	CO 16		
				Max V _y	-1.46	3.80	0.00	0.00	0.00	60.67	CO 16		
				Min V _y	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15		
				Max V _z	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15		
				Min V _z	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15		
				Max M _T	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15		
				Min M _T	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15		
				Max M _y	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15		
				Min M _y	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15		
				Max M _z	-1.46	3.80	0.00	0.00	0.00	60.67	CO 16		
		8	1.000	Min M _z	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15		
				Max N	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15		
				Min N	-1.46	7.60	-0.00	0.00	0.00	54.97	CO 16		
				Max V _y	-1.46	7.60	0.00	0.00	0.00	54.97	CO 16		
				Min V _y	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15		
				Max V _z	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15		
				Min V _z	-1.46	7.60	-0.00	0.00	0.00	54.97	CO 16		
				Max M _T	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15		
				Min M _T	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15		
				Max M _y	-1.46	7.60	-0.00	0.00	0.00	54.97	CO 16		
				Min M _y	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15		
				Max M _z	-1.46	7.60	-0.00	0.00	0.00	54.97	CO 16		
	RC1	10	0.000	Min M _z	-1.15	6.00	0.00	0.00	0.00	43.39	CO 15		
				Max N	-1.56	0.00	0.00	0.00	0.00	66.69	CO 1		
				Min N	-5.11	-0.77	0.00	0.00	0.00	124.10	CO 3		
				Max V _y	-3.63	0.00	0.00	0.00	0.00	155.75	CO 4		
Min V _y				-5.11	-0.77	0.00	0.00	0.00	124.10	CO 3			



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases	
				N	V _y	V _z	M _T	M _y	M _z		
8	RC1	9	1.000	Max V _z	-1.56	0.00	0.00	0.00	0.00	66.69	CO 1
				Min V _z	-1.56	0.00	0.00	0.00	0.00	66.69	CO 1
				Max M _T	-1.56	0.00	0.00	0.00	0.00	66.69	CO 1
				Min M _T	-1.56	0.00	0.00	0.00	0.00	66.69	CO 1
				Max M _y	-1.56	0.00	0.00	0.00	0.00	66.69	CO 1
				Min M _y	-1.56	0.00	0.00	0.00	0.00	66.69	CO 1
				Max M _z	-3.63	0.00	0.00	0.00	0.00	155.75	CO 4
				Min M _z	-3.50	-0.76	0.00	0.00	0.00	54.85	CO 2
				Max N	-1.56	4.05	0.00	0.00	0.00	64.67	CO 1
				Min N	-5.11	6.88	0.00	0.00	0.00	121.05	CO 3
				Max V _y	-3.61	9.45	0.00	0.00	0.00	151.02	CO 4
				Min V _y	-3.50	2.69	0.00	0.00	0.00	53.88	CO 2
				Max V _z	-1.56	4.05	0.00	0.00	0.00	64.67	CO 1
				Min V _z	-1.56	4.05	0.00	0.00	0.00	64.67	CO 1
				Max M _T	-1.56	4.05	0.00	0.00	0.00	64.67	CO 1
				Min M _T	-1.56	4.05	0.00	0.00	0.00	64.67	CO 1
				Max M _y	-1.56	4.05	0.00	0.00	0.00	64.67	CO 1
				Min M _y	-1.56	4.05	0.00	0.00	0.00	64.67	CO 1
				Max M _z	-3.61	9.45	0.00	0.00	0.00	151.02	CO 4
				Min M _z	-3.50	2.69	0.00	0.00	0.00	53.88	CO 2
	RC2	10	0.000	Max N	-1.15	0.00	0.00	0.00	0.00	49.39	CO 6
				Min N	-3.68	-0.51	0.00	0.00	0.00	94.24	CO 8
				Max V _y	-2.69	0.00	0.00	0.00	0.00	115.32	CO 9
				Min V _y	-3.68	-0.51	0.00	0.00	0.00	94.24	CO 8
				Max V _z	-1.15	0.00	0.00	0.00	0.00	49.39	CO 6
				Min V _z	-1.15	0.00	0.00	0.00	0.00	49.39	CO 6
				Max M _T	-1.15	0.00	0.00	0.00	0.00	49.39	CO 6
				Min M _T	-1.15	0.00	0.00	0.00	0.00	49.39	CO 6
				Max M _y	-1.15	0.00	0.00	0.00	0.00	49.39	CO 6
				Min M _y	-1.15	0.00	0.00	0.00	0.00	49.39	CO 6
				Max M _z	-2.69	0.00	0.00	0.00	0.00	115.32	CO 9
				Min M _z	-2.61	-0.50	0.00	0.00	0.00	48.09	CO 7
				Max N	-1.15	3.00	0.00	0.00	0.00	47.89	CO 6
				Min N	-3.68	5.29	0.00	0.00	0.00	91.85	CO 8
				Max V _y	-2.68	7.00	0.00	0.00	0.00	111.82	CO 9
				Min V _y	-2.61	2.50	0.00	0.00	0.00	47.09	CO 7
				Max V _z	-1.15	3.00	0.00	0.00	0.00	47.89	CO 6
				Min V _z	-1.15	3.00	0.00	0.00	0.00	47.89	CO 6
				Max M _T	-1.15	3.00	0.00	0.00	0.00	47.89	CO 6
				Min M _T	-1.15	3.00	0.00	0.00	0.00	47.89	CO 6
	Max M _y	-1.15	3.00	0.00	0.00	0.00	47.89	CO 6			
	Min M _y	-1.15	3.00	0.00	0.00	0.00	47.89	CO 6			
	Max M _z	-2.68	7.00	0.00	0.00	0.00	111.82	CO 9			
	Min M _z	-2.61	2.50	0.00	0.00	0.00	47.09	CO 7			
	RC3	10	0.000	Max N	-1.15	0.00	0.00	0.00	0.00	49.39	CO 11
				Min N	-1.77	0.00	0.00	0.00	0.00	75.75	CO 14
				Max V _y	-1.77	0.00	0.00	0.00	0.00	75.75	CO 14
				Min V _y	-1.75	-0.10	0.00	0.00	0.00	62.31	CO 13
				Max V _z	-1.15	0.00	0.00	0.00	0.00	49.39	CO 11
				Min V _z	-1.15	0.00	0.00	0.00	0.00	49.39	CO 11
				Max M _T	-1.15	0.00	0.00	0.00	0.00	49.39	CO 11
				Min M _T	-1.15	0.00	0.00	0.00	0.00	49.39	CO 11
				Max M _y	-1.15	0.00	0.00	0.00	0.00	49.39	CO 11
Min M _y				-1.15	0.00	0.00	0.00	0.00	49.39	CO 11	
Max M _z				-2.68	7.00	0.00	0.00	0.00	111.82	CO 9	
Min M _z				-2.61	2.50	0.00	0.00	0.00	47.09	CO 7	
Max N				-1.15	0.00	0.00	0.00	0.00	49.39	CO 11	
Min N	-1.77	0.00	0.00	0.00	0.00	75.75	CO 14				



RESULTS

Project: Assignment Week 6

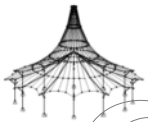
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]				Moments [kNm]			Corresponding Load Cases
				N	V _y	V _z	M _T	M _y	M _z		
8	RC3	9	1.000	Min M _y	-1.15	0.00	0.00	0.00	0.00	49.39	CO 11
				Max M _z	-1.77	0.00	0.00	0.00	0.00	75.75	CO 14
				Min M _z	-1.45	-0.10	0.00	0.00	0.00	49.13	CO 12
				Max N	-1.15	3.00	0.00	0.00	0.00	47.89	CO 11
				Min N	-1.77	4.60	0.00	0.00	0.00	73.45	CO 14
				Max V _y	-1.77	4.60	0.00	0.00	0.00	73.45	CO 14
				Min V _y	-1.44	2.90	-0.00	0.00	0.00	47.73	CO 12
				Max V _z	-1.15	3.00	0.00	0.00	0.00	47.89	CO 11
				Min V _z	-1.44	2.90	-0.00	0.00	0.00	47.73	CO 12
				Max M _T	-1.15	3.00	0.00	0.00	0.00	47.89	CO 11
				Min M _T	-1.15	3.00	0.00	0.00	0.00	47.89	CO 11
				Max M _y	-1.44	2.90	-0.00	0.00	0.00	47.73	CO 12
				Min M _y	-1.15	3.00	0.00	0.00	0.00	47.89	CO 11
				Max M _z	-1.77	4.60	0.00	0.00	0.00	73.45	CO 14
				Min M _z	-1.44	2.90	-0.00	0.00	0.00	47.73	CO 12
				Max N	-1.15	0.00	0.00	0.00	0.00	49.39	CO 15
				Min N	-1.46	0.00	0.00	0.00	0.00	62.57	CO 16
				Max V _y	-1.46	0.00	0.00	0.00	0.00	62.57	CO 16
				Min V _y	-1.15	0.00	0.00	0.00	0.00	49.39	CO 15
				Max V _z	-1.15	0.00	0.00	0.00	0.00	49.39	CO 15
				Min V _z	-1.15	0.00	0.00	0.00	0.00	49.39	CO 15
				Max M _T	-1.15	0.00	0.00	0.00	0.00	49.39	CO 15
				Min M _T	-1.15	0.00	0.00	0.00	0.00	49.39	CO 15
				Max M _y	-1.15	0.00	0.00	0.00	0.00	49.39	CO 15
	Min M _y	-1.15	0.00	0.00	0.00	0.00	49.39	CO 15			
	Max M _z	-1.46	0.00	0.00	0.00	0.00	62.57	CO 16			
	Min M _z	-1.15	0.00	0.00	0.00	0.00	49.39	CO 15			
	RC4	10	0.000	Max N	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Min N	-1.46	3.80	0.00	0.00	0.00	60.67	CO 16
				Max V _y	-1.46	3.80	0.00	0.00	0.00	60.67	CO 16
				Min V _y	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Max V _z	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Min V _z	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Max M _T	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Min M _T	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Max M _y	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Min M _y	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Max M _z	-1.46	3.80	0.00	0.00	0.00	60.67	CO 16
				Min M _z	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
		9	1.000	Max N	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Min N	-1.46	3.80	0.00	0.00	0.00	60.67	CO 16
				Max V _y	-1.46	3.80	0.00	0.00	0.00	60.67	CO 16
				Min V _y	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Max V _z	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Min V _z	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Max M _T	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Min M _T	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
				Max M _y	-1.15	3.00	0.00	0.00	0.00	47.89	CO 15
Min M _y				-1.15	3.00	0.00	0.00	0.00	47.89	CO 15	
Max M _z				-1.46	3.80	0.00	0.00	0.00	60.67	CO 16	
Min M _z				-1.15	3.00	0.00	0.00	0.00	47.89	CO 15	
RC1	11	0.000	Max N	-1.56	-4.05	0.00	0.00	0.00	64.67	CO 1	
			Min N	-5.11	-8.43	0.00	0.00	0.00	119.50	CO 3	
			Max V _y	-1.56	-4.05	0.00	0.00	0.00	64.67	CO 1	
			Min V _y	-4.92	-9.93	0.00	0.00	0.00	149.39	CO 5	
			Max V _z	-1.56	-4.05	0.00	0.00	0.00	64.67	CO 1	
			Min V _z	-1.56	-4.05	0.00	0.00	0.00	64.67	CO 1	
			Max M _T	-1.56	-4.05	0.00	0.00	0.00	64.67	CO 1	
			Min M _T	-1.56	-4.05	0.00	0.00	0.00	64.67	CO 1	
			Max M _y	-1.56	-4.05	0.00	0.00	0.00	64.67	CO 1	
			Min M _y	-1.56	-4.05	0.00	0.00	0.00	64.67	CO 1	
			Max M _z	-3.61	-9.45	0.00	0.00	0.00	151.02	CO 4	
			Min M _z	-3.50	-4.21	0.00	0.00	0.00	52.37	CO 2	
10	1.000	Max N	-1.56	-0.00	0.00	0.00	0.00	66.69	CO 1		
		Min N	-5.11	-0.77	0.00	0.00	0.00	124.10	CO 3		



RESULTS

Project: Assignment Week 6

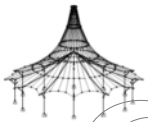
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases	
				N	V _y	V _z	M _T	M _y	M _z		
9	RC1			Max V _y	-1.56	-0.00	0.00	0.00	0.00	66.69	CO 1
				Min V _y	-5.11	-0.77	0.00	0.00	0.00	124.10	CO 3
				Max V _z	-1.56	-0.00	0.00	0.00	0.00	66.69	CO 1
				Min V _z	-1.56	-0.00	0.00	0.00	0.00	66.69	CO 1
				Max M _T	-1.56	-0.00	0.00	0.00	0.00	66.69	CO 1
				Min M _T	-1.56	-0.00	0.00	0.00	0.00	66.69	CO 1
				Max M _y	-1.56	-0.00	0.00	0.00	0.00	66.69	CO 1
				Min M _y	-1.56	-0.00	0.00	0.00	0.00	66.69	CO 1
				Max M _z	-3.63	-0.00	0.00	0.00	0.00	155.75	CO 4
				Min M _z	-3.50	-0.76	0.00	0.00	0.00	54.85	CO 2
	RC2	11	0.000	Max N	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 6
				Min N	-3.68	-6.31	0.00	0.00	0.00	90.82	CO 8
				Max V _y	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 6
				Min V _y	-3.55	-7.31	0.00	0.00	0.00	110.73	CO 10
				Max V _z	-3.55	-7.31	0.00	0.00	0.00	110.73	CO 10
				Min V _z	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 6
				Max M _T	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 6
				Min M _T	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 6
				Max M _y	-3.55	-7.31	0.00	0.00	0.00	110.73	CO 10
				Min M _y	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 6
		10	1.000	Max M _z	-2.68	-7.00	0.00	0.00	0.00	111.82	CO 9
				Min M _z	-2.60	-3.50	0.00	0.00	0.00	46.09	CO 7
				Max N	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 6
				Min N	-3.68	-0.51	0.00	0.00	0.00	94.24	CO 8
				Max V _y	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 6
				Min V _y	-3.68	-0.51	0.00	0.00	0.00	94.24	CO 8
				Max V _z	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 6
				Min V _z	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 6
				Max M _T	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 6
				Min M _T	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 6
				Max M _y	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 6
				Min M _y	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 6
	RC3	11	0.000	Max M _z	-2.69	-0.00	0.00	0.00	0.00	115.32	CO 9
				Min M _z	-2.61	-0.50	0.00	0.00	0.00	48.09	CO 7
				Max N	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 11
				Min N	-1.77	-4.60	0.00	0.00	0.00	73.45	CO 14
				Max V _y	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 11
				Min V _y	-1.77	-4.60	0.00	0.00	0.00	73.45	CO 14
				Max V _z	-1.44	-3.10	0.00	0.00	0.00	47.53	CO 12
				Min V _z	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 11
				Max M _T	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 11
				Min M _T	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 11
		10	1.000	Max M _y	-1.44	-3.10	0.00	0.00	0.00	47.53	CO 12
				Min M _y	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 11
				Max M _z	-1.77	-4.60	0.00	0.00	0.00	73.45	CO 14
				Min M _z	-1.44	-3.10	0.00	0.00	0.00	47.53	CO 12
				Max N	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 11
				Min N	-1.77	-0.00	0.00	0.00	0.00	75.75	CO 14
				Max V _y	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 11
				Min V _y	-1.75	-0.10	0.00	0.00	0.00	62.31	CO 13
				Max V _z	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 11
				Min V _z	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 11
				Max M _T	-1.15	-0.00	0.00	0.00	0.00	49.39	CO 11



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases
				N	V _y	V _z	M _T	M _y	M _z	
9	RC3			Min M _T	-1.15	-0.00	0.00	0.00	0.00	CO 11
				Max M _y	-1.15	-0.00	0.00	0.00	0.00	CO 11
				Min M _y	-1.15	-0.00	0.00	0.00	0.00	CO 11
				Max M _z	-1.77	-0.00	0.00	0.00	0.00	CO 14
				Min M _z	-1.45	-0.10	0.00	0.00	0.00	CO 12
				Max N	-1.15	-3.00	0.00	0.00	0.00	CO 15
	RC4	11	0.000	Min N	-1.46	-3.80	0.00	0.00	0.00	CO 16
				Max V _y	-1.15	-3.00	0.00	0.00	0.00	CO 15
				Min V _y	-1.46	-3.80	0.00	0.00	0.00	CO 16
				Max V _z	-1.15	-3.00	0.00	0.00	0.00	CO 15
				Min V _z	-1.15	-3.00	0.00	0.00	0.00	CO 15
				Max M _T	-1.15	-3.00	0.00	0.00	0.00	CO 15
				Min M _T	-1.15	-3.00	0.00	0.00	0.00	CO 15
				Max M _y	-1.15	-3.00	0.00	0.00	0.00	CO 15
				Min M _y	-1.15	-3.00	0.00	0.00	0.00	CO 15
				Max M _z	-1.46	-3.80	0.00	0.00	0.00	CO 16
				Min M _z	-1.15	-3.00	0.00	0.00	0.00	CO 15
		10	1.000	Max N	-1.15	-0.00	0.00	0.00	0.00	CO 15
				Min N	-1.46	-0.00	0.00	0.00	0.00	CO 16
				Max V _y	-1.15	-0.00	0.00	0.00	0.00	CO 15
				Min V _y	-1.46	-0.00	0.00	0.00	0.00	CO 16
				Max V _z	-1.15	-0.00	0.00	0.00	0.00	CO 15
				Min V _z	-1.15	-0.00	0.00	0.00	0.00	CO 15
				Max M _T	-1.15	-0.00	0.00	0.00	0.00	CO 15
				Min M _T	-1.15	-0.00	0.00	0.00	0.00	CO 15
				Max M _y	-1.15	-0.00	0.00	0.00	0.00	CO 15
				Min M _y	-1.15	-0.00	0.00	0.00	0.00	CO 15
				Max M _z	-1.46	-0.00	0.00	0.00	0.00	CO 16
				Min M _z	-1.15	-0.00	0.00	0.00	0.00	CO 15
10	RC1	12	0.000	Max N	-1.55	-8.10	0.00	0.00	0.00	CO 1
				Min N	-5.08	-16.08	0.00	0.00	0.00	CO 3
				Max V _y	-3.50	-7.66	0.00	0.00	0.00	CO 2
				Min V _y	-4.89	-19.38	0.00	0.00	0.00	CO 5
				Max V _z	-5.08	-16.08	0.00	0.00	0.00	CO 3
				Min V _z	-3.50	-7.66	0.00	0.00	0.00	CO 2
				Max M _T	-1.55	-8.10	0.00	0.00	0.00	CO 1
				Min M _T	-1.55	-8.10	0.00	0.00	0.00	CO 1
				Max M _y	-5.08	-16.08	0.00	0.00	0.00	CO 3
				Min M _y	-3.50	-7.66	0.00	0.00	0.00	CO 2
				Max M _z	-3.58	-18.91	0.00	0.00	0.00	CO 4
				Min M _z	-3.50	-7.66	0.00	0.00	0.00	CO 2
		11	1.000	Max N	-1.56	-4.05	0.00	0.00	0.00	CO 1
				Min N	-5.11	-8.43	0.00	0.00	0.00	CO 3
				Max V _y	-1.56	-4.05	0.00	0.00	0.00	CO 1
				Min V _y	-4.92	-9.93	0.00	0.00	0.00	CO 5
				Max V _z	-1.56	-4.05	0.00	0.00	0.00	CO 1
				Min V _z	-1.56	-4.05	0.00	0.00	0.00	CO 1
				Max M _T	-1.56	-4.05	0.00	0.00	0.00	CO 1
				Min M _T	-1.56	-4.05	0.00	0.00	0.00	CO 1
				Max M _y	-1.56	-4.05	0.00	0.00	0.00	CO 1
				Min M _y	-1.56	-4.05	0.00	0.00	0.00	CO 1
				Max M _z	-3.61	-9.45	0.00	0.00	0.00	CO 4
				Min M _z	-3.50	-4.21	0.00	0.00	0.00	CO 2



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases	
				N	V _y	V _z	M _T	M _y	M _z		
10	RC2	12	0.000	Max N	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 6
				Min N	-3.66	-12.12	0.00	0.00	0.00	81.61	CO 8
				Max V _y	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 6
				Min V _y	-3.54	-14.31	0.00	0.00	0.00	99.92	CO 10
				Max V _z	-2.67	-14.00	0.00	0.00	0.00	101.32	CO 9
				Min V _z	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 6
				Max M _T	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 6
				Min M _T	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 6
				Max M _y	-2.67	-14.00	0.00	0.00	0.00	101.32	CO 9
				Min M _y	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 6
				Max M _z	-2.67	-14.00	0.00	0.00	0.00	101.32	CO 9
				Min M _z	-2.60	-6.51	0.00	0.00	0.00	41.08	CO 7
		11	1.000	Max N	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 6
				Min N	-3.68	-6.31	0.00	0.00	0.00	90.82	CO 8
				Max V _y	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 6
				Min V _y	-3.55	-7.31	0.00	0.00	0.00	110.73	CO 10
				Max V _z	-3.55	-7.31	0.00	0.00	0.00	110.73	CO 10
				Min V _z	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 6
				Max M _T	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 6
				Min M _T	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 6
				Max M _y	-3.55	-7.31	0.00	0.00	0.00	110.73	CO 10
				Min M _y	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 6
				Max M _z	-2.68	-7.00	0.00	0.00	0.00	111.82	CO 9
				Min M _z	-2.60	-3.50	0.00	0.00	0.00	46.09	CO 7
	RC3	12	0.000	Max N	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 11
				Min N	-1.76	-9.20	0.00	0.00	0.00	66.55	CO 14
				Max V _y	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 11
				Min V _y	-1.76	-9.20	0.00	0.00	0.00	66.55	CO 14
				Max V _z	-1.44	-6.10	0.00	0.00	0.00	42.93	CO 12
				Min V _z	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 11
				Max M _T	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 11
				Min M _T	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 11
				Max M _y	-1.44	-6.10	0.00	0.00	0.00	42.93	CO 12
				Min M _y	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 11
				Max M _z	-1.76	-9.20	0.00	0.00	0.00	66.55	CO 14
				Min M _z	-1.44	-6.10	0.00	0.00	0.00	42.93	CO 12
		11	1.000	Max N	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 11
				Min N	-1.77	-4.60	0.00	0.00	0.00	73.45	CO 14
				Max V _y	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 11
				Min V _y	-1.77	-4.60	0.00	0.00	0.00	73.45	CO 14
				Max V _z	-1.44	-3.10	0.00	0.00	0.00	47.53	CO 12
				Min V _z	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 11
				Max M _T	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 11
				Min M _T	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 11
				Max M _y	-1.44	-3.10	0.00	0.00	0.00	47.53	CO 12
				Min M _y	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 11
				Max M _z	-1.77	-4.60	0.00	0.00	0.00	73.45	CO 14
				Min M _z	-1.44	-3.10	0.00	0.00	0.00	47.53	CO 12
	RC4	12	0.000	Max N	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15
				Min N	-1.46	-7.60	0.00	0.00	0.00	54.97	CO 16
				Max V _y	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15
				Min V _y	-1.46	-7.60	0.00	0.00	0.00	54.97	CO 16
				Max V _z	-1.46	-7.60	0.00	0.00	0.00	54.97	CO 16
				Min V _z	-1.46	-7.60	0.00	0.00	0.00	54.97	CO 16



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

THE CROSS SECTIONS INTERNAL FORCES				Result Combination											
Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]			Corresponding Load Cases				
					N	V _y	V _z	M _T	M _y	M _z					
10	RC4	11	1.000	Min V _z	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15				
				Max M _T	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15				
				Min M _T	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15				
				Max M _y	-1.46	-7.60	0.00	0.00	0.00	54.97	CO 16				
				Min M _y	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15				
				Max M _z	-1.46	-7.60	0.00	0.00	0.00	54.97	CO 16				
				Min M _z	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15				
				Max N	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 15				
				Min N	-1.46	-3.80	0.00	0.00	0.00	60.67	CO 16				
				Max V _y	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 15				
				Min V _y	-1.46	-3.80	0.00	0.00	0.00	60.67	CO 16				
				Max V _z	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 15				
				Min V _z	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 15				
				Max M _T	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 15				
				Min M _T	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 15				
				Max M _y	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 15				
				Min M _y	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 15				
				Max M _z	-1.46	-3.80	0.00	0.00	0.00	60.67	CO 16				
				Min M _z	-1.15	-3.00	0.00	0.00	0.00	47.89	CO 15				
				11	RC1	13	0.000	Max N	-1.54	-12.15	0.00	0.00	0.00	48.46	CO 1
								Min N	-5.05	-23.74	0.00	0.00	0.00	87.33	CO 3
								Max V _y	-3.49	-11.11	0.00	0.00	0.00	37.05	CO 2
								Min V _y	-4.84	-28.84	0.00	0.00	0.00	110.62	CO 5
								Max V _z	-1.54	-12.15	0.00	0.00	0.00	48.46	CO 1
Min V _z	-1.54	-12.15	0.00					0.00	0.00	48.46	CO 1				
Max M _T	-1.54	-12.15	0.00					0.00	0.00	48.46	CO 1				
Min M _T	-1.54	-12.15	0.00					0.00	0.00	48.46	CO 1				
Max M _y	-1.54	-12.15	0.00					0.00	0.00	48.46	CO 1				
Min M _y	-1.54	-12.15	0.00					0.00	0.00	48.46	CO 1				
Max M _z	-3.53	-28.36	0.00					0.00	0.00	113.21	CO 4				
Min M _z	-3.49	-11.11	0.00					0.00	0.00	37.05	CO 2				
12	1.000	Max N	-1.55					-8.10	0.00	0.00	0.00	58.59	CO 1		
		Min N	-5.08					-16.08	0.00	0.00	0.00	107.24	CO 3		
		Max V _y	-3.50					-7.66	0.00	0.00	0.00	46.44	CO 2		
		Min V _y	-4.89					-19.38	0.00	0.00	0.00	134.73	CO 5		
		Max V _z	-5.08					-16.08	0.00	0.00	0.00	107.24	CO 3		
		Min V _z	-3.50					-7.66	0.00	0.00	0.00	46.44	CO 2		
		Max M _T	-1.55					-8.10	0.00	0.00	0.00	58.59	CO 1		
		Min M _T	-1.55					-8.10	0.00	0.00	0.00	58.59	CO 1		
RC2	13	0.000	Max M _y					-5.08	-16.08	0.00	0.00	0.00	107.24	CO 3	
			Min M _y					-3.50	-7.66	0.00	0.00	0.00	46.44	CO 2	
			Max M _z					-3.58	-18.91	0.00	0.00	0.00	136.84	CO 4	
			Min M _z					-3.50	-7.66	0.00	0.00	0.00	46.44	CO 2	
			Max N		-1.15	-9.00	0.00	0.00	0.00	35.89	CO 6				
			Min N		-3.65	-17.92	0.00	0.00	0.00	66.59	CO 8				
			Max V _y		-1.15	-9.00	0.00	0.00	0.00	35.89	CO 6				
			Min V _y		-3.51	-21.32	0.00	0.00	0.00	82.10	CO 10				
					Max V _z	-2.64	-21.01	0.00	0.00	0.00	83.81	CO 9			
					Min V _z	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 6			
					Max M _T	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 6			
					Min M _T	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 6			
				Max M _y	-2.64	-21.01	0.00	0.00	0.00	83.81	CO 9				
				Min M _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 6				



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases	
				N	V _y	V _z	M _T	M _y	M _z		
11	RC2	12	1.000	Max M _z	-2.64	-21.01	0.00	0.00	0.00	83.81	CO 9
				Min M _z	-2.60	-9.51	0.00	0.00	0.00	33.08	CO 7
				Max N	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 6
				Min N	-3.66	-12.12	0.00	0.00	0.00	81.61	CO 8
				Max V _y	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 6
				Min V _y	-3.54	-14.31	0.00	0.00	0.00	99.92	CO 10
				Max V _z	-2.67	-14.00	0.00	0.00	0.00	101.32	CO 9
				Min V _z	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 6
				Max M _T	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 6
				Min M _T	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 6
				Max M _y	-2.67	-14.00	0.00	0.00	0.00	101.32	CO 9
				Min M _y	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 6
				Max M _z	-2.67	-14.00	0.00	0.00	0.00	101.32	CO 9
				Min M _z	-2.60	-6.51	0.00	0.00	0.00	41.08	CO 7
				Max N	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Min N	-1.75	-13.80	0.00	0.00	0.00	55.05	CO 14
	RC3	13	0.000	Max V _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Min V _y	-1.75	-13.80	0.00	0.00	0.00	55.05	CO 14
				Max V _z	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Min V _z	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Max M _T	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Min M _T	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Max M _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Min M _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Max M _z	-1.75	-13.80	0.00	0.00	0.00	55.05	CO 14
				Min M _z	-1.44	-9.10	0.00	0.00	0.00	35.33	CO 12
		12	1.000	Max N	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 11
				Min N	-1.76	-9.20	0.00	0.00	0.00	66.55	CO 14
				Max V _y	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 11
				Min V _y	-1.76	-9.20	0.00	0.00	0.00	66.55	CO 14
				Max V _z	-1.44	-6.10	0.00	0.00	0.00	42.93	CO 12
				Min V _z	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 11
				Max M _T	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 11
				Min M _T	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 11
				Max M _y	-1.44	-6.10	0.00	0.00	0.00	42.93	CO 12
				Min M _y	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 11
				Max M _z	-1.76	-9.20	0.00	0.00	0.00	66.55	CO 14
				Min M _z	-1.44	-6.10	0.00	0.00	0.00	42.93	CO 12
	RC4	13	0.000	Max N	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
				Min N	-1.45	-11.40	0.00	0.00	0.00	45.47	CO 16
				Max V _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
				Min V _y	-1.45	-11.40	0.00	0.00	0.00	45.47	CO 16
				Max V _z	-1.45	-11.40	0.00	0.00	0.00	45.47	CO 16
				Min V _z	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
				Max M _T	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
				Min M _T	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
				Max M _y	-1.45	-11.40	0.00	0.00	0.00	45.47	CO 16
				Min M _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
				Max M _z	-1.45	-11.40	0.00	0.00	0.00	45.47	CO 16
				Min M _z	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
		12	1.000	Max N	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15
				Min N	-1.46	-7.60	0.00	0.00	0.00	54.97	CO 16
				Max V _y	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15



RESULTS

Project: Assignment Week 6

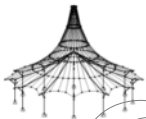
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

1.12 CROSS SECTIONS INTERNAL FORCES													Result Combination	
Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]				Corresponding		
					N	V _y	V _z	M _T	M _y	M _z		Load Cases		
11	RC4			Min V _y	-1.46	-7.60	0.00	0.00	0.00	54.97	CO 16			
				Max V _z	-1.46	-7.60	0.00	0.00	0.00	54.97	CO 16			
				Min V _z	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15			
				Max M _T	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15			
				Min M _T	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15			
				Max M _y	-1.46	-7.60	0.00	0.00	0.00	54.97	CO 16			
				Min M _y	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15			
				Max M _z	-1.46	-7.60	0.00	0.00	0.00	54.97	CO 16			
				Min M _z	-1.15	-6.00	0.00	0.00	0.00	43.39	CO 15			
				Max N	-1.53	-16.20	0.00	0.00	0.00	34.28	CO 1			
12	RC1	14	0.000	Min N	-5.01	-31.39	0.00	0.00	0.00	59.76	CO 3			
				Max V _y	-3.48	-14.56	0.00	0.00	0.00	24.21	CO 2			
				Min V _y	-4.78	-38.29	0.00	0.00	0.00	77.06	CO 5			
				Max V _z	-5.01	-31.39	0.00	0.00	0.00	59.76	CO 3			
				Min V _z	-1.53	-16.20	0.00	0.00	0.00	34.28	CO 1			
				Max M _T	-1.53	-16.20	0.00	0.00	0.00	34.28	CO 1			
				Min M _T	-1.53	-16.20	0.00	0.00	0.00	34.28	CO 1			
				Max M _y	-5.01	-31.39	0.00	0.00	0.00	59.76	CO 3			
				Min M _y	-1.53	-16.20	0.00	0.00	0.00	34.28	CO 1			
				Max M _z	-3.47	-37.81	0.00	0.00	0.00	80.12	CO 4			
				Min M _z	-3.48	-14.56	0.00	0.00	0.00	24.21	CO 2			
		13	1.000	Max N	-1.54	-12.15	0.00	0.00	0.00	48.46	CO 1			
				Min N	-5.05	-23.74	0.00	0.00	0.00	87.33	CO 3			
				Max V _y	-3.49	-11.11	0.00	0.00	0.00	37.05	CO 2			
				Min V _y	-4.84	-28.84	0.00	0.00	0.00	110.62	CO 5			
				Max V _z	-1.54	-12.15	0.00	0.00	0.00	48.46	CO 1			
				Min V _z	-1.54	-12.15	0.00	0.00	0.00	48.46	CO 1			
				Max M _T	-1.54	-12.15	0.00	0.00	0.00	48.46	CO 1			
				Min M _T	-1.54	-12.15	0.00	0.00	0.00	48.46	CO 1			
				Max M _y	-1.54	-12.15	0.00	0.00	0.00	48.46	CO 1			
				Min M _y	-1.54	-12.15	0.00	0.00	0.00	48.46	CO 1			
				Max M _z	-3.53	-28.36	0.00	0.00	0.00	113.21	CO 4			
				Min M _z	-3.49	-11.11	0.00	0.00	0.00	37.05	CO 2			
	RC2	14	0.000	Max N	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 6			
				Min N	-3.62	-23.72	0.00	0.00	0.00	45.77	CO 8			
				Max V _y	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 6			
				Min V _y	-3.48	-28.32	0.00	0.00	0.00	57.29	CO 10			
				Max V _z	-3.48	-28.32	0.00	0.00	0.00	57.29	CO 10			
				Min V _z	-2.59	-12.51	0.00	0.00	0.00	22.07	CO 7			
				Max M _T	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 6			
				Min M _T	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 6			
				Max M _y	-3.48	-28.32	0.00	0.00	0.00	57.29	CO 10			
				Min M _y	-2.59	-12.51	0.00	0.00	0.00	22.07	CO 7			
				Max M _z	-2.61	-28.01	0.00	0.00	0.00	59.30	CO 9			
				Min M _z	-2.59	-12.51	0.00	0.00	0.00	22.07	CO 7			
		13	1.000	Max N	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 6			
				Min N	-3.65	-17.92	0.00	0.00	0.00	66.59	CO 8			
				Max V _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 6			
				Min V _y	-3.51	-21.32	0.00	0.00	0.00	82.10	CO 10			
				Max V _z	-2.64	-21.01	0.00	0.00	0.00	83.81	CO 9			
				Min V _z	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 6			
				Max M _T	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 6			
				Min M _T	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 6			



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

THE CROSS SECTIONS INTERNAL FORCES				Result Combination							
Member No.	RC	Node No.	Location x [m]	N	Forces [kN]			Moments [kNm]			Corresponding Load Cases
					V _y	V _z	M _T	M _y	M _z		
12	RC2	14	0.000	Max M _y	-2.64	-21.01	0.00	0.00	0.00	83.81	CO 9
				Min M _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 6
				Max M _z	-2.64	-21.01	0.00	0.00	0.00	83.81	CO 9
				Min M _z	-2.60	-9.51	0.00	0.00	0.00	33.08	CO 7
				Max N	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 11
				Min N	-1.73	-18.40	0.00	0.00	0.00	38.95	CO 14
	RC3	14	0.000	Max V _y	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 11
				Min V _y	-1.73	-18.40	0.00	0.00	0.00	38.95	CO 14
				Max V _z	-1.73	-15.30	0.00	0.00	0.00	31.50	CO 13
				Min V _z	-1.43	-12.10	0.00	0.00	0.00	24.72	CO 12
				Max M _T	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 11
				Min M _T	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 11
				Max M _y	-1.73	-15.30	0.00	0.00	0.00	31.50	CO 13
				Min M _y	-1.43	-12.10	0.00	0.00	0.00	24.72	CO 12
				Max M _z	-1.73	-18.40	0.00	0.00	0.00	38.95	CO 14
				Min M _z	-1.43	-12.10	0.00	0.00	0.00	24.72	CO 12
		13	1.000	Max N	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Min N	-1.75	-13.80	0.00	0.00	0.00	55.05	CO 14
				Max V _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Min V _y	-1.75	-13.80	0.00	0.00	0.00	55.05	CO 14
				Max V _z	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Min V _z	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Max M _T	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Min M _T	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Max M _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Min M _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 11
				Max M _z	-1.75	-13.80	0.00	0.00	0.00	55.05	CO 14
				Min M _z	-1.44	-9.10	0.00	0.00	0.00	35.33	CO 12
	RC4	14	0.000	Max N	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 15
				Min N	-1.44	-15.20	0.00	0.00	0.00	32.17	CO 16
				Max V _y	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 15
				Min V _y	-1.44	-15.20	0.00	0.00	0.00	32.17	CO 16
				Max V _z	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 15
				Min V _z	-1.44	-15.20	0.00	0.00	0.00	32.17	CO 16
				Max M _T	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 15
				Min M _T	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 15
				Max M _y	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 15
				Min M _y	-1.44	-15.20	0.00	0.00	0.00	32.17	CO 16
				Max M _z	-1.44	-15.20	0.00	0.00	0.00	32.17	CO 16
				Min M _z	-1.14	-12.00	0.00	0.00	0.00	25.39	CO 15
		13	1.000	Max N	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
				Min N	-1.45	-11.40	0.00	0.00	0.00	45.47	CO 16
				Max V _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
				Min V _y	-1.45	-11.40	0.00	0.00	0.00	45.47	CO 16
				Max V _z	-1.45	-11.40	0.00	0.00	0.00	45.47	CO 16
				Min V _z	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
				Max M _T	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
				Min M _T	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
				Max M _y	-1.45	-11.40	0.00	0.00	0.00	45.47	CO 16
				Min M _y	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
				Max M _z	-1.45	-11.40	0.00	0.00	0.00	45.47	CO 16
				Min M _z	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15
13	RC1	15	0.000	Max N	-1.52	-20.25	0.00	0.00	0.00	16.06	CO 1
				Min M _z	-1.15	-9.00	0.00	0.00	0.00	35.89	CO 15



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]				Moments [kNm]				Corresponding Load Cases
				N	V _y	V _z	M _T	M _y	M _z			
13	RC1	14	1.000	Min N	▷ -4.98	-39.04	0.00	0.00	0.00	24.55	CO 3	
				Max V _y	▷ -3.48	-18.01	0.00	0.00	0.00	7.93	CO 2	
				Min V _y	▷ -4.72	-47.74	0.00	0.00	0.00	34.05	CO 5	
				Max V _z	▷ -1.52	-20.25	0.00	0.00	0.00	16.06	CO 1	
				Min V _z	▷ -3.48	-18.01	0.00	0.00	0.00	7.93	CO 2	
				Max M _T	▷ -1.52	-20.25	0.00	▷ 0.00	0.00	16.06	CO 1	
				Min M _T	▷ -1.52	-20.25	0.00	▷ 0.00	0.00	16.06	CO 1	
				Max M _y	▷ -1.52	-20.25	0.00	▷ 0.00	▷ 0.00	16.06	CO 1	
				Min M _y	▷ -3.48	-18.01	0.00	▷ 0.00	0.00	7.93	CO 2	
				Max M _z	▷ -3.41	-47.27	0.00	0.00	0.00	▷ 37.58	CO 4	
				Min M _z	▷ -3.48	-18.01	0.00	0.00	0.00	▷ 7.93	CO 2	
				Max N	▷ -1.53	-16.20	0.00	0.00	0.00	34.28	CO 1	
		15	0.000	Min N	▷ -5.01	-31.39	0.00	0.00	0.00	59.76	CO 3	
				Max V _y	▷ -3.48	-14.56	0.00	0.00	0.00	24.21	CO 2	
				Min V _y	▷ -4.78	-38.29	0.00	0.00	0.00	77.06	CO 5	
				Max V _z	▷ -5.01	-31.39	0.00	0.00	0.00	59.76	CO 3	
				Min V _z	▷ -1.53	-16.20	0.00	0.00	0.00	34.28	CO 1	
				Max M _T	▷ -1.53	-16.20	0.00	▷ 0.00	0.00	34.28	CO 1	
				Min M _T	▷ -1.53	-16.20	0.00	▷ 0.00	0.00	34.28	CO 1	
				Max M _y	▷ -5.01	-31.39	0.00	▷ 0.00	0.00	59.76	CO 3	
				Min M _y	▷ -1.53	-16.20	0.00	▷ 0.00	0.00	34.28	CO 1	
				Max M _z	▷ -3.47	-37.81	0.00	0.00	0.00	▷ 80.12	CO 4	
				Min M _z	▷ -3.48	-14.56	0.00	0.00	0.00	▷ 24.21	CO 2	
				Max N	▷ -1.13	-15.00	0.00	0.00	0.00	11.89	CO 6	
	RC2	14	1.000	Min N	▷ -3.60	-29.52	0.00	0.00	0.00	19.15	CO 8	
				Max V _y	▷ -1.13	-15.00	0.00	0.00	0.00	11.89	CO 6	
				Min V _y	▷ -3.44	-35.32	0.00	0.00	0.00	25.47	CO 10	
				Max V _z	▷ -1.13	-15.00	0.00	0.00	0.00	11.89	CO 6	
				Min V _z	▷ -1.13	-15.00	0.00	0.00	0.00	11.89	CO 6	
				Max M _T	▷ -1.13	-15.00	0.00	▷ 0.00	0.00	11.89	CO 6	
				Min M _T	▷ -1.13	-15.00	0.00	▷ 0.00	0.00	11.89	CO 6	
				Max M _y	▷ -1.13	-15.00	0.00	▷ 0.00	0.00	11.89	CO 6	
				Min M _y	▷ -1.13	-15.00	0.00	▷ 0.00	0.00	11.89	CO 6	
				Max M _z	▷ -2.57	-35.01	0.00	0.00	0.00	▷ 27.80	CO 9	
				Min M _z	▷ -2.59	-15.51	0.00	0.00	0.00	▷ 8.06	CO 7	
				Max N	▷ -1.14	-12.00	0.00	0.00	0.00	25.39	CO 6	
		15	0.000	Min N	▷ -3.62	-23.72	0.00	0.00	0.00	45.77	CO 8	
				Max V _y	▷ -1.14	-12.00	0.00	0.00	0.00	25.39	CO 6	
				Min V _y	▷ -3.48	-28.32	0.00	0.00	0.00	57.29	CO 10	
				Max V _z	▷ -3.48	-28.32	0.00	0.00	0.00	57.29	CO 10	
				Min V _z	▷ -2.59	-12.51	0.00	0.00	0.00	22.07	CO 7	
				Max M _T	▷ -1.14	-12.00	0.00	▷ 0.00	0.00	25.39	CO 6	
				Min M _T	▷ -1.14	-12.00	0.00	▷ 0.00	0.00	25.39	CO 6	
				Max M _y	▷ -3.48	-28.32	0.00	▷ 0.00	0.00	57.29	CO 10	
				Min M _y	▷ -2.59	-12.51	0.00	▷ 0.00	0.00	22.07	CO 7	
				Max M _z	▷ -2.61	-28.01	0.00	0.00	0.00	▷ 59.30	CO 9	
				Min M _z	▷ -2.59	-12.51	0.00	0.00	0.00	▷ 22.07	CO 7	
				RC3	15	0.000	Max N	▷ -1.13	-15.00	0.00	0.00	0.00
	Min N	▷ -1.72	-23.00				0.00	0.00	0.00	18.24	CO 14	
	Max V _y	▷ -1.13	-15.00				0.00	0.00	0.00	11.89	CO 11	
	Min V _y	▷ -1.72	-23.00				0.00	0.00	0.00	18.24	CO 14	
	Max V _z	▷ -1.72	-23.00				0.00	0.00	0.00	18.24	CO 14	
	Min V _z	▷ -1.13	-15.00				0.00	0.00	0.00	11.89	CO 11	



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases
				N	V _y	V _z	M _T	M _y	M _z	
13	RC3	14	1.000	Max M _T	-1.13	-15.00	0.00	0.00	0.00	CO 11
				Min M _T	-1.13	-15.00	0.00	0.00	0.00	CO 11
				Max M _y	-1.72	-23.00	0.00	0.00	0.00	CO 14
				Min M _y	-1.13	-15.00	0.00	0.00	0.00	CO 11
				Max M _z	-1.72	-23.00	0.00	0.00	0.00	CO 14
				Min M _z	-1.42	-15.10	0.00	0.00	0.00	CO 12
				Max N	-1.14	-12.00	0.00	0.00	0.00	CO 11
				Min N	-1.73	-18.40	0.00	0.00	0.00	CO 14
				Max V _y	-1.14	-12.00	0.00	0.00	0.00	CO 11
				Min V _y	-1.73	-18.40	0.00	0.00	0.00	CO 14
				Max V _z	-1.73	-15.30	0.00	0.00	0.00	CO 13
				Min V _z	-1.43	-12.10	0.00	0.00	0.00	CO 12
	RC4	15	0.000	Max M _T	-1.14	-12.00	0.00	0.00	0.00	CO 11
				Min M _T	-1.14	-12.00	0.00	0.00	0.00	CO 11
				Max M _y	-1.73	-15.30	0.00	0.00	0.00	CO 13
				Min M _y	-1.43	-12.10	0.00	0.00	0.00	CO 12
				Max M _z	-1.73	-18.40	0.00	0.00	0.00	CO 14
				Min M _z	-1.43	-12.10	0.00	0.00	0.00	CO 12
				Max N	-1.13	-15.00	0.00	0.00	0.00	CO 15
				Min N	-1.43	-19.00	0.00	0.00	0.00	CO 16
				Max V _y	-1.13	-15.00	0.00	0.00	0.00	CO 15
				Min V _y	-1.43	-19.00	0.00	0.00	0.00	CO 16
				Max V _z	-1.43	-19.00	0.00	0.00	0.00	CO 16
				Min V _z	-1.13	-15.00	0.00	0.00	0.00	CO 15
14	RC1	3	0.000	Max M _T	-1.13	-15.00	0.00	0.00	0.00	CO 15
				Min M _T	-1.13	-15.00	0.00	0.00	0.00	CO 15
				Max M _y	-1.43	-19.00	0.00	0.00	0.00	CO 16
				Min M _y	-1.13	-15.00	0.00	0.00	0.00	CO 15
				Max M _z	-1.43	-19.00	0.00	0.00	0.00	CO 16
				Min M _z	-1.13	-15.00	0.00	0.00	0.00	CO 15
				Max N	-1.14	-12.00	0.00	0.00	0.00	CO 15
				Min N	-1.44	-15.20	0.00	0.00	0.00	CO 16
				Max V _y	-1.14	-12.00	0.00	0.00	0.00	CO 15
				Min V _y	-1.44	-15.20	0.00	0.00	0.00	CO 16
				Max V _z	-1.14	-12.00	0.00	0.00	0.00	CO 15
				Min V _z	-1.44	-15.20	0.00	0.00	0.00	CO 16
	RC3	14	1.000	Max M _T	-1.14	-12.00	0.00	0.00	0.00	CO 15
				Min M _T	-1.14	-12.00	0.00	0.00	0.00	CO 15
				Max M _y	-1.14	-12.00	0.00	0.00	0.00	CO 1
				Min M _y	-1.51	-24.30	0.00	0.00	0.00	CO 1
				Max M _z	-1.51	-24.30	0.00	0.00	0.00	CO 3
				Min M _z	-1.44	-15.20	0.00	0.00	0.00	CO 16
				Max N	-1.14	-12.00	0.00	0.00	0.00	CO 15
				Min N	-1.44	-15.20	0.00	0.00	0.00	CO 16
				Max V _y	-1.14	-12.00	0.00	0.00	0.00	CO 15
				Min V _y	-1.44	-15.20	0.00	0.00	0.00	CO 16
				Max V _z	-1.14	-12.00	0.00	0.00	0.00	CO 15
				Min V _z	-1.44	-15.20	0.00	0.00	0.00	CO 16



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

■ 4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Result Combination												
Member No.	RC	Node No.	Location x [m]	Forces [kN]					Moments [kNm]			Corresponding Load Cases
				N	V _y	V _z	M _T	M _y	M _z			
14	RC1	15	1.000	Min M _z	-4.68	-57.19	0.00	0.00	0.00	▷	-18.42	CO 5
				Max N	-1.52	-20.25	0.00	0.00	0.00	▷	16.06	CO 1
				Min N	-4.98	-39.04	0.00	0.00	0.00	▷	24.55	CO 3
				Max V _y	-3.48	-18.01	0.00	0.00	0.00	▷	7.93	CO 2
				Min V _y	-4.72	-47.74	0.00	0.00	0.00	▷	34.05	CO 5
				Max V _z	-1.52	-20.25	0.00	0.00	0.00	▷	16.06	CO 1
				Min V _z	-3.48	-18.01	0.00	0.00	0.00	▷	7.93	CO 2
				Max M _T	-1.52	-20.25	0.00	▷	0.00	0.00	16.06	CO 1
				Min M _T	-1.52	-20.25	0.00	▷	0.00	0.00	16.06	CO 1
				Max M _y	-1.52	-20.25	0.00	0.00	▷	0.00	16.06	CO 1
				Min M _y	-3.48	-18.01	0.00	0.00	▷	0.00	7.93	CO 2
				Max M _z	-3.41	-47.27	0.00	0.00	0.00	▷	37.58	CO 4
	RC2	3	0.000	Min M _z	-3.48	-18.01	0.00	0.00	0.00	▷	7.93	CO 2
				Max N	-1.13	-18.00	0.00	0.00	0.00	▷	-4.61	CO 6
				Min N	-3.59	-35.32	0.00	0.00	0.00	▷	-13.27	CO 8
				Max V _y	-1.13	-18.00	0.00	0.00	0.00	▷	-4.61	CO 6
				Min V _y	-3.42	-42.32	0.00	0.00	0.00	▷	-13.35	CO 10
				Max V _z	-1.13	-18.00	0.00	0.00	0.00	▷	-4.61	CO 6
				Min V _z	-1.13	-18.00	0.00	0.00	0.00	▷	-4.61	CO 6
				Max M _T	-1.13	-18.00	0.00	▷	0.00	0.00	-4.61	CO 6
				Min M _T	-1.13	-18.00	0.00	▷	0.00	0.00	-4.61	CO 6
				Max M _y	-1.13	-18.00	0.00	▷	0.00	0.00	-4.61	CO 6
				Min M _y	-1.13	-18.00	0.00	▷	0.00	0.00	-4.61	CO 6
				Max M _z	-1.13	-18.00	0.00	0.00	▷	0.00	-4.61	CO 6
		15	1.000	Min M _z	-3.42	-42.32	0.00	0.00	0.00	▷	-13.35	CO 10
				Max N	-1.13	-15.00	0.00	0.00	0.00	▷	11.89	CO 6
				Min N	-3.60	-29.52	0.00	0.00	0.00	▷	19.15	CO 8
				Max V _y	-1.13	-15.00	0.00	0.00	0.00	▷	11.89	CO 6
				Min V _y	-3.44	-35.32	0.00	0.00	0.00	▷	25.47	CO 10
				Max V _z	-1.13	-15.00	0.00	0.00	0.00	▷	11.89	CO 6
				Min V _z	-1.13	-15.00	0.00	0.00	0.00	▷	11.89	CO 6
				Max M _T	-1.13	-15.00	0.00	▷	0.00	0.00	11.89	CO 6
				Min M _T	-1.13	-15.00	0.00	▷	0.00	0.00	11.89	CO 6
				Max M _y	-1.13	-15.00	0.00	▷	0.00	0.00	11.89	CO 6
				Min M _y	-1.13	-15.00	0.00	▷	0.00	0.00	11.89	CO 6
				Max M _z	-2.57	-35.01	0.00	0.00	0.00	▷	27.80	CO 9
	RC3	3	0.000	Min M _z	-2.59	-15.51	0.00	0.00	0.00	▷	8.06	CO 7
				Max N	-1.13	-18.00	0.00	0.00	0.00	▷	-4.61	CO 11
				Min N	-1.71	-22.90	0.00	0.00	-0.00	▷	-6.71	CO 13
				Max V _y	-1.13	-18.00	0.00	0.00	0.00	▷	-4.61	CO 11
				Min V _y	-1.71	-27.60	0.00	0.00	0.00	▷	-7.06	CO 14
				Max V _z	-1.71	-22.90	0.00	0.00	-0.00	▷	-6.71	CO 13
				Min V _z	-1.13	-18.00	0.00	0.00	0.00	▷	-4.61	CO 11
				Max M _T	-1.13	-18.00	0.00	▷	0.00	0.00	-4.61	CO 11
				Min M _T	-1.13	-18.00	0.00	▷	0.00	0.00	-4.61	CO 11
				Max M _y	-1.13	-18.00	0.00	▷	0.00	0.00	-4.61	CO 11
				Min M _y	-1.71	-22.90	0.00	▷	0.00	-0.00	-6.71	CO 13
				Max M _z	-1.13	-18.00	0.00	0.00	▷	0.00	-4.61	CO 11
		15	1.000	Min M _z	-1.71	-27.60	0.00	0.00	0.00	▷	-7.06	CO 14
				Max N	-1.13	-15.00	0.00	0.00	0.00	▷	11.89	CO 11
				Min N	-1.72	-23.00	0.00	0.00	0.00	▷	18.24	CO 14
				Max V _y	-1.13	-15.00	0.00	0.00	0.00	▷	11.89	CO 11
				Min V _y	-1.72	-23.00	0.00	0.00	0.00	▷	18.24	CO 14



RESULTS

Project: Assignment Week 6

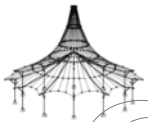
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

INTERNAL FORCES												Result Combination	
Member No.	RC	Node No.	Location x [m]		N	Forces [kN]		M _T	Moments [kNm]			Corresponding Load Cases	
						V _y	V _z		M _y	M _z			
14	RC3	3	0.000	Max V _z	-1.72	-23.00	0.00	0.00	0.00	18.24	CO 14		
				Min V _z	-1.13	-15.00	0.00	0.00	11.89	CO 11			
				Max M _T	-1.13	-15.00	0.00	0.00	11.89	CO 11			
				Min M _T	-1.13	-15.00	0.00	0.00	11.89	CO 11			
				Max M _y	-1.72	-23.00	0.00	0.00	18.24	CO 14			
				Min M _y	-1.13	-15.00	0.00	0.00	11.89	CO 11			
				Max M _z	-1.72	-23.00	0.00	0.00	18.24	CO 14			
				Min M _z	-1.42	-15.10	0.00	0.00	11.12	CO 12			
	RC4		Max N	-1.13	-18.00	0.00	0.00	-4.61	CO 15				
			Min N	-1.42	-22.80	0.00	-0.00	-5.84	CO 16				
			Max V _y	-1.13	-18.00	0.00	0.00	-4.61	CO 15				
			Min V _y	-1.42	-22.80	0.00	-0.00	-5.84	CO 16				
			Max V _z	-1.42	-22.80	0.00	-0.00	-5.84	CO 16				
			Min V _z	-1.13	-18.00	0.00	0.00	-4.61	CO 15				
			Max M _T	-1.13	-18.00	0.00	0.00	-4.61	CO 15				
			Min M _T	-1.13	-18.00	0.00	0.00	-4.61	CO 15				
	15	Max M _y	-1.13	-18.00	0.00	0.00	-4.61	CO 15					
		Min M _y	-1.42	-22.80	0.00	-0.00	-5.84	CO 16					
		Max M _z	-1.13	-18.00	0.00	0.00	-4.61	CO 15					
		Min M _z	-1.42	-22.80	0.00	-0.00	-5.84	CO 16					
		Max N	-1.13	-15.00	0.00	0.00	11.89	CO 15					
		Min N	-1.43	-19.00	0.00	0.00	15.06	CO 16					
		Max V _y	-1.13	-15.00	0.00	0.00	11.89	CO 15					
		Min V _y	-1.43	-19.00	0.00	0.00	15.06	CO 16					
		Max V _z	-1.43	-19.00	0.00	0.00	15.06	CO 16					
		Min V _z	-1.13	-15.00	0.00	0.00	11.89	CO 15					
		Max M _T	-1.13	-15.00	0.00	0.00	11.89	CO 15					
		Min M _T	-1.13	-15.00	0.00	0.00	11.89	CO 15					
		Max M _y	-1.43	-19.00	0.00	0.00	15.06	CO 16					
		Min M _y	-1.13	-15.00	0.00	0.00	11.89	CO 15					
		Max M _z	-1.43	-19.00	0.00	0.00	15.06	CO 16					
		Min M _z	-1.13	-15.00	0.00	0.00	11.89	CO 15					
Section No. 2: T-Rectangle 0.2/0.2													
1	RC1	16	1.000	Max N	-25.69	4.03	0.00	0.00	0.00	-4.14	CO 2		
				Min N	-62.45	-3.70	0.00	0.00	0.00	3.69	CO 4		
				Max V _y	-25.69	4.03	0.00	0.00	0.00	-4.14	CO 2		
				Min V _y	-62.45	-3.70	0.00	0.00	0.00	3.69	CO 4		
				Max V _z	-31.05	-1.57	0.00	0.00	0.00	1.57	CO 1		
				Min V _z	-50.87	2.43	-0.00	0.00	-0.00	-2.61	CO 3		
				Max M _T	-31.05	-1.57	0.00	0.00	0.00	1.57	CO 1		
				Min M _T	-31.05	-1.57	0.00	0.00	0.00	1.57	CO 1		
				Max M _y	-31.05	-1.57	0.00	0.00	0.00	1.57	CO 1		
				Min M _y	-50.87	2.43	-0.00	0.00	-0.00	-2.61	CO 3		
				Max M _z	-62.45	-3.70	0.00	0.00	0.00	3.69	CO 4		
				Min M _z	-25.69	4.03	0.00	0.00	0.00	-4.14	CO 2		
				Max N	-26.84	5.50	0.00	0.00	0.00	-8.91	CO 2		
				Min N	-63.60	-3.63	0.00	0.00	0.00	7.35	CO 4		
				Max V _y	-26.84	5.50	0.00	0.00	0.00	-8.91	CO 2		
				Min V _y	-63.60	-3.63	0.00	0.00	0.00	7.35	CO 4		
				Max V _z	-32.40	-1.56	0.00	0.00	0.00	3.13	CO 1		
				Min V _z	-32.40	-1.56	0.00	0.00	0.00	3.13	CO 1		
				Max M _T	-32.40	-1.56	0.00	0.00	0.00	3.13	CO 1		
				Min M _T	-32.40	-1.56	0.00	0.00	0.00	3.13	CO 1		



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases		
				N	V _y	V _z	M _T	M _y	M _z			
1	RC1	16	0.000	Max M _y	-32.40	-1.56	0.00	0.00	0.00	3.13	CO 1	
				Min M _y	-32.40	-1.56	0.00	0.00	0.00	3.13	CO 1	
				Max M _z	-63.60	-3.63	0.00	0.00	0.00	7.35	CO 4	
	Min M _z			-26.84	5.50	0.00	0.00	0.00	-8.91	CO 2		
	Max N			-22.49	2.41	-0.00	0.00	-0.00	-2.48	CO 7		
	Min N			-47.00	-2.73	0.00	0.00	0.00	2.72	CO 9		
	Max V _y			-22.49	2.41	-0.00	0.00	-0.00	-2.48	CO 7		
	Min V _y			-47.00	-2.73	0.00	0.00	0.00	2.72	CO 9		
	Max V _z			-23.00	-1.16	0.00	0.00	0.00	1.16	CO 6		
	Min V _z			-22.49	2.41	-0.00	0.00	-0.00	-2.48	CO 7		
	Max M _T			-23.00	-1.16	0.00	0.00	0.00	1.16	CO 6		
	Min M _T			-23.00	-1.16	0.00	0.00	0.00	1.16	CO 6		
	Max M _y			-23.00	-1.16	0.00	0.00	0.00	1.16	CO 6		
	Min M _y			-22.49	2.41	-0.00	0.00	-0.00	-2.48	CO 7		
	Max M _z			-47.00	-2.73	0.00	0.00	0.00	2.72	CO 9		
	Min M _z			-22.49	2.41	-0.00	0.00	-0.00	-2.48	CO 7		
	RC2	1	1.000	Max N	-23.50	3.39	0.00	0.00	0.00	-5.39	CO 7	
				Min N	-48.00	-2.69	0.00	0.00	0.00	5.43	CO 9	
				Max V _y	-23.50	3.39	0.00	0.00	0.00	-5.39	CO 7	
				Min V _y	-48.00	-2.69	0.00	0.00	0.00	5.43	CO 9	
				Max V _z	-24.00	-1.15	0.00	0.00	0.00	2.32	CO 6	
				Min V _z	-24.00	-1.15	0.00	0.00	0.00	2.32	CO 6	
				Max M _T	-24.00	-1.15	0.00	0.00	0.00	2.32	CO 6	
				Min M _T	-24.00	-1.15	0.00	0.00	0.00	2.32	CO 6	
				Max M _y	-24.00	-1.15	0.00	0.00	0.00	2.32	CO 6	
				Min M _y	-24.00	-1.15	0.00	0.00	0.00	2.32	CO 6	
				Max M _z	-48.00	-2.69	0.00	0.00	0.00	5.43	CO 9	
				Min M _z	-23.50	3.39	0.00	0.00	0.00	-5.39	CO 7	
		RC3	16	0.000	Max N	-22.90	-0.45	0.00	0.00	0.00	0.43	CO 12
					Min N	-32.60	-1.79	0.00	0.00	0.00	1.78	CO 14
					Max V _y	-22.90	-0.45	0.00	0.00	0.00	0.43	CO 12
					Min V _y	-32.60	-1.79	0.00	0.00	0.00	1.78	CO 14
					Max V _z	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 11
					Min V _z	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 11
					Max M _T	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 11
					Min M _T	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 11
					Max M _y	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 11
					Min M _y	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 11
					Max M _z	-32.60	-1.79	0.00	0.00	0.00	1.78	CO 14
					Min M _z	-22.90	-0.45	0.00	0.00	0.00	0.43	CO 12
	RC4	1	1.000	Max N	-23.90	-0.25	0.00	0.00	0.00	0.78	CO 12	
				Min N	-33.60	-1.77	0.00	0.00	0.00	3.56	CO 14	
				Max V _y	-23.90	-0.25	0.00	0.00	0.00	0.78	CO 12	
				Min V _y	-33.60	-1.77	0.00	0.00	0.00	3.56	CO 14	
				Max V _z	-24.00	-1.15	0.00	0.00	0.00	2.32	CO 11	
				Min V _z	-24.00	-1.15	0.00	0.00	0.00	2.32	CO 11	
				Max M _T	-24.00	-1.15	0.00	0.00	0.00	2.32	CO 11	
				Min M _T	-24.00	-1.15	0.00	0.00	0.00	2.32	CO 11	
				Max M _y	-24.00	-1.15	0.00	0.00	0.00	2.32	CO 11	
				Min M _y	-24.00	-1.15	0.00	0.00	0.00	2.32	CO 11	
				Max M _z	-33.60	-1.77	0.00	0.00	0.00	3.56	CO 14	
				Min M _z	-23.90	-0.25	0.00	0.00	0.00	0.78	CO 12	
		RC4	16	0.000	Max N	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 15



Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases	
				N	V _y	V _z	M _T	M _y	M _z		
1	RC4	1	1.000	Min N	▷ -27.80	-1.48	0.00	0.00	0.00	1.47	CO 16
				Max V _y	▷ -23.00	-1.16	0.00	0.00	0.00	1.16	CO 15
				Min V _y	▷ -27.80	-1.48	0.00	0.00	0.00	1.47	CO 16
				Max V _z	▷ -23.00	-1.16	▷ 0.00	0.00	0.00	1.16	CO 15
				Min V _z	▷ -23.00	-1.16	▷ 0.00	0.00	0.00	1.16	CO 15
				Max M _T	▷ -23.00	-1.16	▷ 0.00	0.00	0.00	1.16	CO 15
				Min M _T	▷ -23.00	-1.16	▷ 0.00	0.00	0.00	1.16	CO 15
				Max M _y	▷ -23.00	-1.16	0.00	▷ 0.00	0.00	1.16	CO 15
				Min M _y	▷ -23.00	-1.16	0.00	▷ 0.00	0.00	1.16	CO 15
				Max M _z	▷ -27.80	-1.48	0.00	▷ 0.00	0.00	1.47	CO 16
				Min M _z	▷ -23.00	-1.16	0.00	▷ 0.00	▷ 0.00	1.16	CO 15
				Max N	▷ -24.00	-1.15	0.00	0.00	0.00	2.32	CO 15
				Min N	▷ -28.80	-1.46	0.00	0.00	0.00	2.94	CO 16
				Max V _y	▷ -24.00	-1.15	0.00	0.00	0.00	2.32	CO 15
				Min V _y	▷ -28.80	-1.46	0.00	0.00	0.00	2.94	CO 16
				Max V _z	▷ -24.00	-1.15	0.00	0.00	0.00	2.32	CO 15
				Min V _z	▷ -24.00	-1.15	0.00	0.00	0.00	2.32	CO 15
				Max M _T	▷ -24.00	-1.15	▷ 0.00	0.00	0.00	2.32	CO 15
				Min M _T	▷ -24.00	-1.15	▷ 0.00	0.00	0.00	2.32	CO 15
				Max M _y	▷ -24.00	-1.15	0.00	▷ 0.00	0.00	2.32	CO 15
				Min M _y	▷ -24.00	-1.15	0.00	▷ 0.00	0.00	2.32	CO 15
				Max M _z	▷ -28.80	-1.46	0.00	▷ 0.00	▷ 0.00	2.94	CO 16
				Min M _z	▷ -24.00	-1.15	0.00	▷ 0.00	▷ 0.00	2.32	CO 15
3	RC1	4	0.000	Max N	▷ -28.36	3.50	0.00	0.00	0.00	9.44	CO 2
				Min N	▷ -64.07	4.93	0.00	0.00	0.00	11.52	CO 5
				Max V _y	▷ -53.57	5.11	0.00	0.00	0.00	12.83	CO 3
				Min V _y	▷ -32.40	1.56	0.00	0.00	0.00	3.13	CO 1
				Max V _z	▷ -32.40	1.56	▷ 0.00	0.00	0.00	3.13	CO 1
				Min V _z	▷ -32.40	1.56	▷ 0.00	0.00	0.00	3.13	CO 1
				Max M _T	▷ -32.40	1.56	▷ 0.00	0.00	0.00	3.13	CO 1
				Min M _T	▷ -32.40	1.56	▷ 0.00	0.00	0.00	3.13	CO 1
				Max M _y	▷ -32.40	1.56	0.00	▷ 0.00	0.00	3.13	CO 1
				Min M _y	▷ -32.40	1.56	0.00	▷ 0.00	0.00	3.13	CO 1
				Max M _z	▷ -53.57	5.11	0.00	0.00	▷ 0.00	12.83	CO 3
				Min M _z	▷ -32.40	1.56	0.00	0.00	▷ 0.00	3.13	CO 1
		21	1.000	Max N	▷ -27.20	3.55	-0.00	0.00	0.00	5.91	CO 2
				Min N	▷ -62.91	5.05	-0.00	0.00	0.00	6.52	CO 5
				Max V _y	▷ -52.41	5.23	0.00	0.00	0.00	7.65	CO 3
				Min V _y	▷ -31.05	1.57	0.00	0.00	0.00	1.57	CO 1
				Max V _z	▷ -31.05	1.57	▷ 0.00	0.00	0.00	1.57	CO 1
				Min V _z	▷ -62.91	5.05	▷ -0.00	0.00	0.00	6.52	CO 5
				Max M _T	▷ -31.05	1.57	0.00	0.00	0.00	1.57	CO 1
				Min M _T	▷ -31.05	1.57	▷ 0.00	0.00	0.00	1.57	CO 1
				Max M _y	▷ -62.91	5.05	-0.00	▷ 0.00	0.00	6.52	CO 5
				Min M _y	▷ -31.05	1.57	0.00	▷ 0.00	0.00	1.57	CO 1
				Max M _z	▷ -52.41	5.23	0.00	0.00	▷ 0.00	7.65	CO 3
				Min M _z	▷ -31.05	1.57	0.00	0.00	▷ 0.00	1.57	CO 1
	RC2	4	0.000	Max N	▷ -24.00	1.15	0.00	0.00	0.00	2.32	CO 6
				Min N	▷ -48.31	3.56	0.00	0.00	0.00	8.18	CO 10
				Max V _y	▷ -41.31	3.68	0.00	0.00	0.00	9.05	CO 8
				Min V _y	▷ -24.00	1.15	0.00	0.00	0.00	2.32	CO 6
				Max V _z	▷ -24.00	1.15	▷ 0.00	0.00	0.00	2.32	CO 6
				Min V _z	▷ -24.00	1.15	▷ 0.00	0.00	0.00	2.32	CO 6



RESULTS

Project: Assignment Week 6

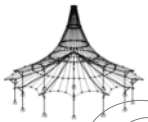
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

THE CROSS SECTIONS INTERNAL FORCES												Result Combination	
Member No.	RC	Node No.	Location x [m]		N	Forces [kN]		V _z	Moments [kNm]			Corresponding Load Cases	
						V _y			M _T	M _y	M _z		
3	RC2	21	1.000	Max M _T	-24.00	1.15	0.00	0.00	0.00	0.00	2.32	CO 6	
				Min M _T	-24.00	1.15	0.00	0.00	0.00	2.32	CO 6		
				Max M _y	-24.00	1.15	0.00	0.00	0.00	2.32	CO 6		
				Min M _y	-24.00	1.15	0.00	0.00	0.00	2.32	CO 6		
				Max M _z	-41.31	3.68	0.00	0.00	0.00	9.05	CO 8		
				Min M _z	-24.00	1.15	0.00	0.00	0.00	2.32	CO 6		
				Max N	-23.00	1.16	0.00	0.00	0.00	1.16	CO 6		
				Min N	-47.30	3.62	0.00	0.00	0.00	4.58	CO 10		
				Max V _y	-40.31	3.74	0.00	0.00	0.00	5.34	CO 8		
				Min V _y	-23.00	1.16	0.00	0.00	0.00	1.16	CO 6		
				Max V _z	-23.00	1.16	0.00	0.00	0.00	1.16	CO 6		
				Min V _z	-23.50	2.63	-0.00	0.00	0.00	4.20	CO 7		
				Max M _T	-23.00	1.16	0.00	0.00	0.00	1.16	CO 6		
				Min M _T	-23.00	1.16	0.00	0.00	0.00	1.16	CO 6		
				Max M _y	-23.50	2.63	-0.00	0.00	0.00	4.20	CO 7		
				Min M _y	-23.00	1.16	0.00	0.00	0.00	1.16	CO 6		
				Max M _z	-40.31	3.74	0.00	0.00	0.00	5.34	CO 8		
				RC3	4	0.000	Min M _z	-23.00	1.16	0.00	0.00	0.00	0.00
	Max N	-24.00	1.15				0.00	0.00	0.00	2.32	CO 11		
	Min N	-33.60	1.77				0.00	0.00	0.00	3.56	CO 14		
	Max V _y	-33.60	1.77				0.00	0.00	0.00	3.56	CO 14		
	Min V _y	-24.00	1.15				0.00	0.00	0.00	2.32	CO 11		
	Max V _z	-24.00	1.15				0.00	0.00	0.00	2.32	CO 11		
	Min V _z	-24.00	1.15				0.00	0.00	0.00	2.32	CO 11		
	Max M _T	-24.00	1.15				0.00	0.00	0.00	2.32	CO 11		
	Min M _T	-24.00	1.15				0.00	0.00	0.00	2.32	CO 11		
	Max M _y	-24.00	1.15				0.00	0.00	0.00	2.32	CO 11		
	Min M _y	-24.00	1.15				0.00	0.00	0.00	2.32	CO 11		
	Max M _z	-28.90	1.75				0.00	0.00	0.00	3.84	CO 13		
	21	1.000	Min M _z		-24.00		1.15	0.00	0.00	0.00	2.32	CO 11	
			Max N		-23.00		1.16	0.00	0.00	0.00	1.16	CO 11	
			Min N		-32.60		1.79	0.00	0.00	0.00	1.78	CO 14	
			Max V _y		-32.60		1.79	0.00	0.00	0.00	1.78	CO 14	
			Min V _y		-23.00		1.16	0.00	0.00	0.00	1.16	CO 11	
			Max V _z		-23.00		1.16	0.00	0.00	0.00	1.16	CO 11	
			Min V _z		-27.90		1.77	-0.00	0.00	0.00	2.08	CO 13	
			Max M _T		-23.00		1.16	0.00	0.00	0.00	1.16	CO 11	
			Min M _T		-23.00		1.16	0.00	0.00	0.00	1.16	CO 11	
			Max M _y		-27.90		1.77	-0.00	0.00	0.00	2.08	CO 13	
	RC4	4	0.000	Min M _y	-23.00	1.16	0.00	0.00	0.00	1.16	CO 11		
				Max M _z	-27.90	1.77	-0.00	0.00	0.00	2.08	CO 13		
				Min M _z	-23.00	1.16	0.00	0.00	0.00	1.16	CO 11		
				Max N	-24.00	1.15	0.00	0.00	0.00	2.32	CO 15		
				Min N	-28.80	1.46	0.00	0.00	0.00	2.94	CO 16		
				Max V _y	-28.80	1.46	0.00	0.00	0.00	2.94	CO 16		
				Min V _y	-24.00	1.15	0.00	0.00	0.00	2.32	CO 15		
				Max V _z	-24.00	1.15	0.00	0.00	0.00	2.32	CO 15		
				Min V _z	-24.00	1.15	0.00	0.00	0.00	2.32	CO 15		
				Max M _T	-24.00	1.15	0.00	0.00	0.00	2.32	CO 15		
				Min M _T	-24.00	1.15	0.00	0.00	0.00	2.32	CO 15		
				Max M _y	-24.00	1.15	0.00	0.00	0.00	2.32	CO 15		
	Min M _y	-24.00	1.15	0.00	0.00	0.00	2.32	CO 15					
	Max M _z	-28.80	1.46	0.00	0.00	0.00	2.94	CO 16					



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

■ 4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]					Moments [kNm]				Corresponding
				N	V _y	V _z	M _T	M _y	M _z	Load Cases			
3	RC4	21	1.000	Min M _z	-24.00	1.15	0.00	0.00	0.00	2.32	CO 15		
				Max N	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15		
				Min N	-27.80	1.48	0.00	0.00	0.00	1.47	CO 16		
				Max V _y	-27.80	1.48	0.00	0.00	0.00	1.47	CO 16		
				Min V _y	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15		
				Max V _z	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15		
				Min V _z	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15		
				Max M _T	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15		
				Min M _T	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15		
				Max M _y	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15		
				Min M _y	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15		
				Max M _z	-27.80	1.48	0.00	0.00	0.00	1.47	CO 16		
				Min M _z	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15		
				Max N	-24.54	2.54	0.00	0.00	0.00	-0.86	CO 2		
				Min N	-61.29	-3.72	0.00	0.00	0.00	-0.03	CO 4		
15	RC1	17	0.000	Max V _y	-24.54	2.54	0.00	0.00	0.00	-0.86	CO 2		
				Min V _y	-61.29	-3.72	0.00	0.00	0.00	-0.03	CO 4		
				Max V _z	-29.70	-1.58	0.00	0.00	0.00	-0.01	CO 1		
				Min V _z	-49.72	0.95	-0.00	0.00	-0.92	CO 3			
				Max M _T	-29.70	-1.58	0.00	0.00	0.00	-0.01	CO 1		
				Min M _T	-29.70	-1.58	0.00	0.00	0.00	-0.01	CO 1		
				Max M _y	-29.70	-1.58	0.00	0.00	0.00	-0.01	CO 1		
				Min M _y	-49.72	0.95	-0.00	0.00	-0.92	CO 3			
				Max M _z	-29.70	-1.58	0.00	0.00	0.00	-0.01	CO 1		
				Min M _z	-49.72	0.95	-0.00	0.00	-0.92	CO 3			
		16	1.000	Max N	-25.69	4.03	0.00	0.00	0.00	-4.14	CO 2		
				Min N	-62.45	-3.70	0.00	0.00	0.00	3.69	CO 4		
				Max V _y	-25.69	4.03	0.00	0.00	0.00	-4.14	CO 2		
				Min V _y	-62.45	-3.70	0.00	0.00	0.00	3.69	CO 4		
				Max V _z	-31.05	-1.57	0.00	0.00	0.00	1.57	CO 1		
				Min V _z	-50.87	2.43	-0.00	0.00	-0.00	-2.61	CO 3		
				Max M _T	-31.05	-1.57	0.00	0.00	0.00	1.57	CO 1		
				Min M _T	-31.05	-1.57	0.00	0.00	0.00	1.57	CO 1		
				Max M _y	-31.05	-1.57	0.00	0.00	0.00	1.57	CO 1		
				Min M _y	-50.87	2.43	-0.00	0.00	-0.00	-2.61	CO 3		
				Max M _z	-62.45	-3.70	0.00	0.00	0.00	3.69	CO 4		
				Min M _z	-25.69	4.03	0.00	0.00	0.00	-4.14	CO 2		
	RC2	17	0.000	Max N	-21.50	1.42	0.00	0.00	0.00	-0.57	CO 7		
				Min N	-46.00	-2.74	0.00	0.00	0.00	-0.02	CO 9		
				Max V _y	-21.50	1.42	0.00	0.00	0.00	-0.57	CO 7		
				Min V _y	-46.00	-2.74	0.00	0.00	0.00	-0.02	CO 9		
				Max V _z	-46.00	-2.74	0.00	0.00	0.00	-0.02	CO 9		
				Min V _z	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 6		
				Max M _T	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 6		
				Min M _T	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 6		
				Max M _y	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 6		
				Min M _y	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 6		
				Max M _z	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 6		
		16	1.000	Min M _z	-38.29	0.34	0.00	0.00	0.00	-0.60	CO 8		
				Max N	-22.49	2.41	-0.00	0.00	-0.00	-2.48	CO 7		
				Min N	-47.00	-2.73	0.00	0.00	0.00	2.72	CO 9		
				Max V _y	-22.49	2.41	-0.00	0.00	-0.00	-2.48	CO 7		
				Min V _y	-47.00	-2.73	0.00	0.00	0.00	2.72	CO 9		
				Max V _z	-47.00	-2.73	0.00	0.00	0.00	2.72	CO 9		



RESULTS

Project: Assignment Week 6

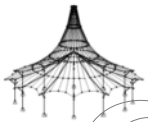
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]						Moments [kNm]			Corresponding Load Cases
				N	V _y	V _z	M _T	M _y	M _z				
15	RC2	17	0.000	Max V _z	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 6		
				Min V _z	-22.49	2.41	-0.00	0.00	-0.00	-2.48	CO 7		
				Max M _T	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 6		
				Min M _T	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 6		
				Max M _y	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 6		
				Min M _y	-22.49	2.41	-0.00	0.00	-0.00	-2.48	CO 7		
				Max M _z	-47.00	-2.73	0.00	0.00	0.00	2.72	CO 9		
				Min M _z	-22.49	2.41	-0.00	0.00	-0.00	-2.48	CO 7		
	RC3			Max N	-21.90	-0.65	0.00	0.00	0.00	-0.12	CO 12		
				Min N	-31.60	-1.79	0.00	0.00	0.00	-0.01	CO 14		
				Max V _y	-21.90	-0.65	0.00	0.00	0.00	-0.12	CO 12		
				Min V _y	-31.60	-1.79	0.00	0.00	0.00	-0.01	CO 14		
				Max V _z	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11		
				Min V _z	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11		
				Max M _T	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11		
				Min M _T	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11		
	16			Max M _y	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11		
				Min M _y	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11		
				Max M _z	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11		
				Min M _z	-26.70	-0.96	0.00	0.00	0.00	-0.12	CO 13		
				Max N	-22.90	-0.45	0.00	0.00	0.00	0.43	CO 12		
				Min N	-32.60	-1.79	0.00	0.00	0.00	1.78	CO 14		
				Max V _y	-22.90	-0.45	0.00	0.00	0.00	0.43	CO 12		
				Min V _y	-32.60	-1.79	0.00	0.00	0.00	1.78	CO 14		
		Max V _z	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 11				
		Min V _z	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 11				
		Max M _T	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 11				
		Min M _T	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 11				
		Max M _y	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 11				
		Min M _y	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 11				
		Max M _z	-32.60	-1.79	0.00	0.00	0.00	1.78	CO 14				
		Min M _z	-22.90	-0.45	0.00	0.00	0.00	0.43	CO 12				
	RC4	17	0.000	Max N	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 15		
				Min N	-26.80	-1.48	0.00	0.00	0.00	-0.01	CO 16		
				Max V _y	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 15		
				Min V _y	-26.80	-1.48	0.00	0.00	0.00	-0.01	CO 16		
				Max V _z	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 15		
				Min V _z	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 15		
				Max M _T	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 15		
				Min M _T	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 15		
		16	1.000	Max M _y	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 15		
				Min M _y	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 15		
				Max M _z	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 15		
				Min M _z	-26.80	-1.48	0.00	0.00	0.00	-0.01	CO 16		
				Max N	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 15		
				Min N	-27.80	-1.48	0.00	0.00	0.00	1.47	CO 16		
				Max V _y	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 15		
				Min V _y	-27.80	-1.48	0.00	0.00	0.00	1.47	CO 16		
			Max V _z	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 15			
			Min V _z	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 15			
			Max M _T	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 15			
			Min M _T	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 15			
			Max M _y	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 15			
			Min M _y	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 15			
			Max M _z	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 15			
			Min M _z	-23.00	-1.16	0.00	0.00	0.00	1.16	CO 15			



Project: Assignment Week 6

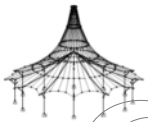
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases
				N	V _y	V _z	M _T	M _y	M _z	
15	RC4			Min M _y	-23.00	-1.16	0.00	0.00	0.00	CO 15
				Max M _z	-27.80	-1.48	0.00	0.00	1.47	CO 16
16	RC1	18	0.000	Min M _z	-23.00	-1.16	0.00	0.00	1.16	CO 15
				Max N	-23.39	1.04	0.00	0.00	0.93	CO 2
				Min N	-60.15	-3.69	0.00	0.00	-3.74	CO 4
				Max V _y	-23.39	1.04	0.00	0.00	0.93	CO 2
				Min V _y	-60.15	-3.69	0.00	0.00	-3.74	CO 4
				Max V _z	-28.35	-1.57	0.00	0.00	-1.58	CO 1
				Min V _z	-28.35	-1.57	0.00	0.00	-1.58	CO 1
				Max M _T	-28.35	-1.57	0.00	0.00	-1.58	CO 1
				Min M _T	-28.35	-1.57	0.00	0.00	-1.58	CO 1
				Max M _y	-28.35	-1.57	0.00	0.00	-1.58	CO 1
				Min M _y	-28.35	-1.57	0.00	0.00	-1.58	CO 1
				Max M _z	-23.39	1.04	0.00	0.00	0.93	CO 2
				Min M _z	-60.15	-3.69	0.00	0.00	-3.74	CO 4
				Max N	-24.54	2.54	0.00	0.00	-0.86	CO 2
				Min N	-61.29	-3.72	0.00	0.00	-0.03	CO 4
				Max V _y	-24.54	2.54	0.00	0.00	-0.86	CO 2
	RC2	18	0.000	Min V _y	-61.29	-3.72	0.00	0.00	-0.03	CO 4
				Max V _z	-29.70	-1.58	0.00	0.00	-0.01	CO 1
				Min V _z	-49.72	0.95	-0.00	0.00	-0.92	CO 3
				Max M _T	-29.70	-1.58	0.00	0.00	-0.01	CO 1
				Min M _T	-29.70	-1.58	0.00	0.00	-0.01	CO 1
				Max M _y	-29.70	-1.58	0.00	0.00	-0.01	CO 1
				Min M _y	-49.72	0.95	-0.00	0.00	-0.92	CO 3
				Max M _z	-29.70	-1.58	0.00	0.00	-0.01	CO 1
				Min M _z	-49.72	0.95	-0.00	0.00	-0.92	CO 3
				Max N	-20.50	0.42	0.00	0.00	0.35	CO 7
				Min N	-45.00	-2.73	0.00	0.00	-2.75	CO 9
				Max V _y	-20.50	0.42	0.00	0.00	0.35	CO 7
				Min V _y	-45.00	-2.73	0.00	0.00	-2.75	CO 9
				Max V _z	-45.00	-2.73	0.00	0.00	-2.75	CO 9
				Min V _z	-21.00	-1.16	0.00	0.00	-1.17	CO 6
				Max M _T	-21.00	-1.16	0.00	0.00	-1.17	CO 6
				Min M _T	-21.00	-1.16	0.00	0.00	-1.17	CO 6
				Max M _y	-21.00	-1.16	0.00	0.00	-1.17	CO 6
				Min M _y	-45.00	-2.73	0.00	0.00	-2.75	CO 9
				Max M _z	-20.50	0.42	0.00	0.00	0.35	CO 7
				Min M _z	-45.00	-2.73	0.00	0.00	-2.75	CO 9
	RC3	18	0.000	Max N	-21.50	1.42	0.00	0.00	-0.57	CO 7
				Min N	-46.00	-2.74	0.00	0.00	-0.02	CO 9
				Max V _y	-21.50	1.42	0.00	0.00	-0.57	CO 7
				Min V _y	-46.00	-2.74	0.00	0.00	-0.02	CO 9
				Max V _z	-46.00	-2.74	0.00	0.00	-0.02	CO 9
				Min V _z	-22.00	-1.17	0.00	0.00	-0.01	CO 6
				Max M _T	-22.00	-1.17	0.00	0.00	-0.01	CO 6
				Min M _T	-22.00	-1.17	0.00	0.00	-0.01	CO 6
				Max M _y	-22.00	-1.17	0.00	0.00	-0.01	CO 6
				Min M _y	-22.00	-1.17	0.00	0.00	-0.01	CO 6
				Max M _z	-22.00	-1.17	0.00	0.00	-0.01	CO 6
				Min M _z	-38.29	0.34	0.00	0.00	-0.60	CO 8
				Max N	-20.90	-0.85	0.00	0.00	-0.87	CO 12
				Min N	-30.60	-1.79	0.00	0.00	-1.80	CO 14



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases	
				N	V _y	V _z	M _T	M _y	M _z		
16	RC3	17	1.000	Max V _y	-20.90	-0.85	0.00	0.00	0.00	-0.87	CO 12
				Min V _y	-30.60	-1.79	0.00	0.00	0.00	-1.80	CO 14
				Max V _z	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 11
				Min V _z	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 11
				Max M _T	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 11
				Min M _T	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 11
				Max M _y	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 11
				Min M _y	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 11
				Max M _z	-20.90	-0.85	0.00	0.00	0.00	-0.87	CO 12
				Min M _z	-30.60	-1.79	0.00	0.00	0.00	-1.80	CO 14
				Max N	-21.90	-0.65	0.00	0.00	0.00	-0.12	CO 12
				Min N	-31.60	-1.79	0.00	0.00	0.00	-0.01	CO 14
				Max V _y	-21.90	-0.65	0.00	0.00	0.00	-0.12	CO 12
				Min V _y	-31.60	-1.79	0.00	0.00	0.00	-0.01	CO 14
				Max V _z	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11
				Min V _z	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11
				Max M _T	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11
				Min M _T	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11
				Max M _y	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11
				Min M _y	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11
				Max M _z	-22.00	-1.17	0.00	0.00	0.00	-0.01	CO 11
	RC4	18	0.000	Min M _z	-26.70	-0.96	0.00	0.00	0.00	-0.12	CO 13
				Max N	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 15
				Min N	-25.80	-1.47	0.00	0.00	0.00	-1.48	CO 16
				Max V _y	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 15
				Min V _y	-25.80	-1.47	0.00	0.00	0.00	-1.48	CO 16
				Max V _z	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 15
				Min V _z	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 15
				Max M _T	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 15
				Min M _T	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 15
				Max M _y	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 15
				Min M _y	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 15
				Max M _z	-21.00	-1.16	0.00	0.00	0.00	-1.17	CO 15
				17	1.000	Min M _z	-25.80	-1.47	0.00	0.00	0.00
		Max N	-22.00			-1.17	0.00	0.00	0.00	-0.01	CO 15
		Min N	-26.80			-1.48	0.00	0.00	0.00	-0.01	CO 16
		Max V _y	-22.00			-1.17	0.00	0.00	0.00	-0.01	CO 15
		Min V _y	-26.80			-1.48	0.00	0.00	0.00	-0.01	CO 16
		Max V _z	-22.00			-1.17	0.00	0.00	0.00	-0.01	CO 15
		Min V _z	-22.00			-1.17	0.00	0.00	0.00	-0.01	CO 15
		Max M _T	-22.00			-1.17	0.00	0.00	0.00	-0.01	CO 15
		Min M _T	-22.00			-1.17	0.00	0.00	0.00	-0.01	CO 15
		Max M _y	-22.00			-1.17	0.00	0.00	0.00	-0.01	CO 15
		Min M _y	-22.00			-1.17	0.00	0.00	0.00	-0.01	CO 15
		Max M _z	-22.00			-1.17	0.00	0.00	0.00	-0.01	CO 15
		17	RC1	0.000	Min M _z	-26.80	-1.48	0.00	0.00	0.00	-0.01
Max N	-22.24				-0.47	0.00	0.00	0.00	1.22	CO 2	
Min N	-59.00				-3.62	0.00	0.00	0.00	-7.40	CO 4	
Max V _y	-22.24				-0.47	0.00	0.00	0.00	1.22	CO 2	
Min V _y	-59.00				-3.62	0.00	0.00	0.00	-7.40	CO 4	
Max V _z	-27.00				-1.56	0.00	0.00	0.00	-3.15	CO 1	
Min V _z	-27.00				-1.56	0.00	0.00	0.00	-3.15	CO 1	
Max M _T	-27.00				-1.56	0.00	0.00	0.00	-3.15	CO 1	



Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases
				N	V _y	V _z	M _T	M _y	M _z	
17	RC1	18	1.000	Min M _T	-27.00	-1.56	0.00	0.00	0.00	CO 1
				Max M _y	-22.24	-0.47	0.00	0.00	1.22	CO 2
				Min M _y	-27.00	-1.56	0.00	0.00	-3.15	CO 1
				Max M _z	-22.24	-0.47	0.00	0.00	1.22	CO 2
				Min M _z	-59.00	-3.62	0.00	0.00	-7.40	CO 4
				Max N	-23.39	1.04	0.00	0.00	0.93	CO 2
				Min N	-60.15	-3.69	0.00	0.00	-3.74	CO 4
				Max V _y	-23.39	1.04	0.00	0.00	0.93	CO 2
				Min V _y	-60.15	-3.69	0.00	0.00	-3.74	CO 4
				Max V _z	-28.35	-1.57	0.00	0.00	-1.58	CO 1
				Min V _z	-28.35	-1.57	0.00	0.00	-1.58	CO 1
				Max M _T	-28.35	-1.57	0.00	0.00	-1.58	CO 1
				Min M _T	-28.35	-1.57	0.00	0.00	-1.58	CO 1
				Max M _y	-28.35	-1.57	0.00	0.00	-1.58	CO 1
				Min M _y	-28.35	-1.57	0.00	0.00	-1.58	CO 1
				Max M _z	-23.39	1.04	0.00	0.00	0.93	CO 2
				Min M _z	-60.15	-3.69	0.00	0.00	-3.74	CO 4
	RC2	19	0.000	Max N	-19.50	-0.59	0.00	0.00	0.26	CO 7
				Min N	-44.00	-2.69	0.00	0.00	-5.46	CO 9
				Max V _y	-19.50	-0.59	0.00	0.00	0.26	CO 7
				Min V _y	-44.00	-2.69	0.00	0.00	-5.46	CO 9
				Max V _z	-43.69	-2.33	0.00	-0.00	-3.88	CO 10
				Min V _z	-20.00	-1.15	0.00	0.00	-2.33	CO 6
				Max M _T	-20.00	-1.15	0.00	0.00	-2.33	CO 6
				Min M _T	-20.00	-1.15	0.00	0.00	-2.33	CO 6
				Max M _y	-20.00	-1.15	0.00	0.00	-2.33	CO 6
				Min M _y	-43.69	-2.33	0.00	-0.00	-3.88	CO 10
				Max M _z	-19.50	-0.59	0.00	0.00	0.26	CO 7
				Min M _z	-44.00	-2.69	0.00	0.00	-5.46	CO 9
		18	1.000	Max N	-20.50	0.42	0.00	0.00	0.35	CO 7
				Min N	-45.00	-2.73	0.00	-0.00	-2.75	CO 9
				Max V _y	-20.50	0.42	0.00	0.00	0.35	CO 7
				Min V _y	-45.00	-2.73	0.00	-0.00	-2.75	CO 9
				Max V _z	-45.00	-2.73	0.00	-0.00	-2.75	CO 9
				Min V _z	-21.00	-1.16	0.00	0.00	-1.17	CO 6
				Max M _T	-21.00	-1.16	0.00	0.00	-1.17	CO 6
				Min M _T	-21.00	-1.16	0.00	0.00	-1.17	CO 6
				Max M _y	-21.00	-1.16	0.00	0.00	-1.17	CO 6
				Min M _y	-45.00	-2.73	0.00	-0.00	-2.75	CO 9
				Max M _z	-20.50	0.42	0.00	0.00	0.35	CO 7
				Min M _z	-45.00	-2.73	0.00	-0.00	-2.75	CO 9
	RC3	19	0.000	Max N	-19.90	-1.04	0.00	0.00	-1.81	CO 12
				Min N	-29.60	-1.77	0.00	0.00	-3.58	CO 14
				Max V _y	-19.90	-1.04	0.00	0.00	-1.81	CO 12
				Min V _y	-29.60	-1.77	0.00	0.00	-3.58	CO 14
				Max V _z	-20.00	-1.15	0.00	0.00	-2.33	CO 11
				Min V _z	-20.00	-1.15	0.00	0.00	-2.33	CO 11
				Max M _T	-20.00	-1.15	0.00	0.00	-2.33	CO 11
				Min M _T	-20.00	-1.15	0.00	0.00	-2.33	CO 11
				Max M _y	-20.00	-1.15	0.00	0.00	-2.33	CO 11
				Min M _y	-20.00	-1.15	0.00	0.00	-2.33	CO 11
				Max M _z	-19.90	-1.04	0.00	0.00	-1.81	CO 12
				Min M _z	-29.60	-1.77	0.00	0.00	-3.58	CO 14



RESULTS

Project: Assignment Week 6

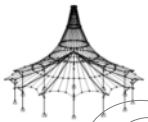
Model: B3_Frame

Date: 18/10/2021

■ 4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]					Moments [kNm]			Corresponding Load Cases	
				N	V _y	V _z	M _T	M _y	M _z				
17	RC3	18	1.000	Max N	▽	-20.90	-0.85	0.00	0.00	0.00	0.00	-0.87	CO 12
				Min N	▽	-30.60	-1.79	0.00	0.00	0.00	0.00	-1.80	CO 14
				Max V _y	▽	-20.90	-0.85	0.00	0.00	0.00	0.00	-0.87	CO 12
				Min V _y	▽	-30.60	-1.79	0.00	0.00	0.00	0.00	-1.80	CO 14
				Max V _z	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 11
				Min V _z	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 11
				Max M _T	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 11
				Min M _T	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 11
				Max M _y	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 11
				Min M _y	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 11
				Max M _z	▽	-20.90	-0.85	0.00	0.00	0.00	0.00	-0.87	CO 12
				Min M _z	▽	-30.60	-1.79	0.00	0.00	0.00	0.00	-1.80	CO 14
	RC4	19	0.000	Max N	▽	-20.00	-1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
				Min N	▽	-24.80	-1.46	0.00	0.00	0.00	0.00	-2.95	CO 16
				Max V _y	▽	-20.00	-1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
				Min V _y	▽	-24.80	-1.46	0.00	0.00	0.00	0.00	-2.95	CO 16
				Max V _z	▽	-20.00	-1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
				Min V _z	▽	-20.00	-1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
				Max M _T	▽	-20.00	-1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
				Min M _T	▽	-20.00	-1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
				Max M _y	▽	-20.00	-1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
				Min M _y	▽	-20.00	-1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
				Max M _z	▽	-20.00	-1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
				Min M _z	▽	-24.80	-1.46	0.00	0.00	0.00	0.00	-2.95	CO 16
		18	1.000	Max N	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 15
				Min N	▽	-25.80	-1.47	0.00	0.00	0.00	0.00	-1.48	CO 16
				Max V _y	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 15
				Min V _y	▽	-25.80	-1.47	0.00	0.00	0.00	0.00	-1.48	CO 16
				Max V _z	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 15
				Min V _z	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 15
				Max M _T	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 15
				Min M _T	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 15
				Max M _y	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 15
				Min M _y	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 15
				Max M _z	▽	-21.00	-1.16	0.00	0.00	0.00	0.00	-1.17	CO 15
				Min M _z	▽	-25.80	-1.47	0.00	0.00	0.00	0.00	-1.48	CO 16
RC1	20	0.000	Max N	▽	-21.10	-1.97	0.00	0.00	0.00	0.00	-0.00	CO 2	
			Min N	▽	-57.86	-3.51	0.00	0.00	0.00	0.00	-10.97	CO 4	
			Max V _y	▽	-25.65	-1.54	0.00	0.00	0.00	0.00	-4.70	CO 1	
			Min V _y	▽	-57.39	-3.90	0.00	0.00	0.00	0.00	-8.50	CO 5	
			Max V _z	▽	-21.10	-1.97	0.00	0.00	0.00	0.00	-0.00	CO 2	
			Min V _z	▽	-25.65	-1.54	0.00	0.00	0.00	0.00	-4.70	CO 1	
			Max M _T	▽	-25.65	-1.54	0.00	0.00	0.00	0.00	-4.70	CO 1	
			Min M _T	▽	-25.65	-1.54	0.00	0.00	0.00	0.00	-4.70	CO 1	
			Max M _y	▽	-25.65	-1.54	0.00	0.00	0.00	0.00	-4.70	CO 1	
			Min M _y	▽	-25.65	-1.54	0.00	0.00	0.00	0.00	-4.70	CO 1	
			Max M _z	▽	-21.10	-1.97	0.00	0.00	0.00	0.00	-0.00	CO 2	
			Min M _z	▽	-57.86	-3.51	0.00	0.00	0.00	0.00	-10.97	CO 4	
19	1.000	Max N	▽	-22.24	-0.47	0.00	0.00	0.00	0.00	1.22	CO 2		
		Min N	▽	-59.00	-3.62	0.00	0.00	0.00	0.00	-7.40	CO 4		
		Max V _y	▽	-22.24	-0.47	0.00	0.00	0.00	0.00	1.22	CO 2		
		Min V _y	▽	-59.00	-3.62	0.00	0.00	0.00	0.00	-7.40	CO 4		
		Max V _z	▽	-27.00	-1.56	0.00	0.00	0.00	0.00	-3.15	CO 1		
		Min V _z	▽	-27.00	-1.56	0.00	0.00	0.00	0.00	-3.15	CO 1		



RESULTS

Project: Assignment Week 6

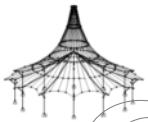
Model: B3_Frame

Date: 18/10/2021

■ 4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]					Moments [kNm]				Corresponding	
				N	V _y	V _z	M _T	M _y	M _z	Load Cases				
18	RC1			Min V _z	-27.00	-1.56	0.00	0.00	0.00	-3.15	CO 1			
				Max M _T	-27.00	-1.56	0.00	0.00	0.00	-3.15	CO 1			
				Min M _T	-27.00	-1.56	0.00	0.00	0.00	-3.15	CO 1			
				Max M _y	-22.24	-0.47	0.00	0.00	0.00	1.22	CO 2			
				Min M _y	-27.00	-1.56	0.00	0.00	0.00	-3.15	CO 1			
	RC2	20	0.000	Max M _z	-22.24	-0.47	0.00	0.00	0.00	1.22	CO 2			
				Min M _z	-59.00	-3.62	0.00	0.00	0.00	-7.40	CO 4			
				Max N	-18.50	-1.59	0.00	0.00	0.00	-0.82	CO 7			
				Min N	-43.00	-2.63	0.00	0.00	0.00	-8.12	CO 9			
				Max V _y	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 6			
				Min V _y	-42.70	-2.89	0.00	0.00	0.00	-6.50	CO 10			
				Max V _z	-35.29	-2.62	0.00	0.00	-0.00	-4.03	CO 8			
				Min V _z	-18.50	-1.59	0.00	0.00	0.00	-0.82	CO 7			
				Max M _T	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 6			
				Min M _T	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 6			
				Max M _y	-18.50	-1.59	0.00	0.00	0.00	-0.82	CO 7			
				Min M _y	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 6			
				Max M _z	-18.50	-1.59	0.00	0.00	0.00	-0.82	CO 7			
				Min M _z	-43.00	-2.63	0.00	0.00	0.00	-8.12	CO 9			
				Max N	-19.50	-0.59	0.00	0.00	0.00	0.26	CO 7			
				Min N	-44.00	-2.69	0.00	0.00	0.00	-5.46	CO 9			
				Max V _y	-19.50	-0.59	0.00	0.00	0.00	0.26	CO 7			
				Min V _y	-44.00	-2.69	0.00	0.00	0.00	-5.46	CO 9			
				Max V _z	-43.69	-2.33	0.00	0.00	-0.00	-3.88	CO 10			
				RC3	20	0.000	Min V _z	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 6
	Max M _T	-20.00	-1.15				0.00	0.00	0.00	-2.33	CO 6			
	Min M _T	-20.00	-1.15				0.00	0.00	0.00	-2.33	CO 6			
	Max M _y	-20.00	-1.15				0.00	0.00	0.00	-2.33	CO 6			
	Min M _y	-43.69	-2.33				0.00	0.00	-0.00	-3.88	CO 10			
	Max M _z	-19.50	-0.59				0.00	0.00	0.00	0.26	CO 7			
	Min M _z	-44.00	-2.69				0.00	0.00	0.00	-5.46	CO 9			
	Max N	-18.90	-1.23				0.00	0.00	0.00	-2.95	CO 12			
	Min N	-28.60	-1.74				0.00	0.00	0.00	-5.34	CO 14			
	Max V _y	-19.00	-1.14				0.00	0.00	-0.00	-3.48	CO 11			
	Min V _y	-28.60	-1.74				0.00	0.00	0.00	-5.34	CO 14			
	Max V _z	-19.00	-1.14				0.00	0.00	-0.00	-3.48	CO 11			
	Min V _z	-18.90	-1.23				0.00	0.00	0.00	-2.95	CO 12			
	Max M _T	-19.00	-1.14				0.00	0.00	-0.00	-3.48	CO 11			
	Min M _T	-19.00	-1.14				0.00	0.00	-0.00	-3.48	CO 11			
	Max M _y	-18.90	-1.23				0.00	0.00	0.00	-2.95	CO 12			
	Min M _y	-19.00	-1.14				0.00	0.00	-0.00	-3.48	CO 11			
	Max M _z	-18.90	-1.23				0.00	0.00	0.00	-2.95	CO 12			
	RC3	19	1.000				Min M _z	-28.60	-1.74	0.00	0.00	0.00	-5.34	CO 14
							Max N	-19.90	-1.04	0.00	0.00	0.00	-1.81	CO 12
				Min N	-29.60	-1.77	0.00	0.00	0.00	-3.58	CO 14			
				Max V _y	-19.90	-1.04	0.00	0.00	0.00	-1.81	CO 12			
				Min V _y	-29.60	-1.77	0.00	0.00	0.00	-3.58	CO 14			
				Max V _z	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 11			
				Min V _z	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 11			
				Max M _T	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 11			
				Min M _T	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 11			
				Max M _y	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 11			
				Min M _y	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 11			
Max M _z				-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 11				
Min M _z				-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 11				



RESULTS

Project: Assignment Week 6

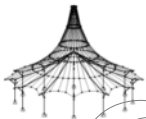
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases	
				N	V _y	V _z	M _T	M _y	M _z		
18	RC3	20	0.000	Max M _z	-19.90	-1.04	0.00	0.00	0.00	-1.81	CO 12
				Min M _z	-29.60	-1.77	0.00	0.00	0.00	-3.58	CO 14
				Max N	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 15
				Min N	-23.80	-1.44	0.00	0.00	0.00	-4.41	CO 16
				Max V _y	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 15
				Min V _y	-23.80	-1.44	0.00	0.00	0.00	-4.41	CO 16
				Max V _z	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 15
				Min V _z	-23.80	-1.44	0.00	0.00	0.00	-4.41	CO 16
				Max M _T	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 15
				Min M _T	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 15
				Max M _y	-23.80	-1.44	0.00	0.00	0.00	-4.41	CO 16
				Min M _y	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 15
	RC4	19	1.000	Max M _z	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 15
				Min M _z	-23.80	-1.44	0.00	0.00	0.00	-4.41	CO 16
				Max N	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 15
				Min N	-24.80	-1.46	0.00	0.00	0.00	-2.95	CO 16
				Max V _y	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 15
				Min V _y	-24.80	-1.46	0.00	0.00	0.00	-2.95	CO 16
				Max V _z	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 15
				Min V _z	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 15
				Max M _T	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 15
				Min M _T	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 15
				Max M _y	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 15
				Min M _y	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 15
19	RC1	2	0.000	Max M _z	-20.00	-1.15	0.00	0.00	0.00	-2.33	CO 15
				Min M _z	-24.80	-1.46	0.00	0.00	0.00	-2.95	CO 16
				Max N	-19.95	-3.47	0.00	0.00	0.00	-2.73	CO 2
				Min N	-56.72	-3.37	0.00	0.00	0.00	-14.42	CO 4
				Max V _y	-24.30	-1.51	0.00	0.00	0.00	-6.22	CO 1
				Min V _y	-45.14	-4.95	0.00	0.00	0.00	-9.02	CO 3
				Max V _z	-56.25	-4.67	0.00	0.00	-0.00	-12.79	CO 5
				Min V _z	-24.30	-1.51	0.00	0.00	0.00	-6.22	CO 1
				Max M _T	-24.30	-1.51	0.00	0.00	0.00	-6.22	CO 1
				Min M _T	-24.30	-1.51	0.00	0.00	0.00	-6.22	CO 1
				Max M _y	-24.30	-1.51	0.00	0.00	0.00	-6.22	CO 1
				Min M _y	-56.25	-4.67	0.00	0.00	-0.00	-12.79	CO 5
		20	1.000	Max M _z	-19.95	-3.47	0.00	0.00	0.00	-2.73	CO 2
				Min M _z	-56.72	-3.37	0.00	0.00	0.00	-14.42	CO 4
				Max N	-21.10	-1.97	0.00	0.00	0.00	-0.00	CO 2
				Min N	-57.86	-3.51	0.00	0.00	0.00	-10.97	CO 4
				Max V _y	-25.65	-1.54	0.00	0.00	0.00	-4.70	CO 1
				Min V _y	-57.39	-3.90	0.00	0.00	0.00	-8.50	CO 5
				Max V _z	-21.10	-1.97	0.00	0.00	0.00	-0.00	CO 2
				Min V _z	-25.65	-1.54	0.00	0.00	0.00	-4.70	CO 1
				Max M _T	-25.65	-1.54	0.00	0.00	0.00	-4.70	CO 1
				Min M _T	-25.65	-1.54	0.00	0.00	0.00	-4.70	CO 1
				Max M _y	-25.65	-1.54	0.00	0.00	0.00	-4.70	CO 1
				Min M _y	-25.65	-1.54	0.00	0.00	0.00	-4.70	CO 1
	RC2	2	0.000	Max M _z	-21.10	-1.97	0.00	0.00	0.00	-0.00	CO 2
				Min M _z	-57.86	-3.51	0.00	0.00	0.00	-10.97	CO 4
				Max N	-17.50	-2.58	0.00	0.00	0.00	-2.91	CO 7
				Min N	-42.01	-2.55	0.00	0.00	0.00	-10.71	CO 9
				Max V _y	-18.00	-1.13	0.00	0.00	0.00	-4.61	CO 6



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]				Moments [kNm]			Corresponding Load Cases
				N	V _y	V _z	M _T	M _y	M _z		
19	RC2	20	1.000	Min V _y	-34.30	-3.58	0.00	0.00	0.00	-7.14	CO 8
				Max V _z	-18.00	-1.13	0.00	0.00	0.00	-4.61	CO 6
				Min V _z	-18.00	-1.13	0.00	0.00	0.00	-4.61	CO 6
				Max M _T	-18.00	-1.13	0.00	0.00	0.00	-4.61	CO 6
				Min M _T	-18.00	-1.13	0.00	0.00	0.00	-4.61	CO 6
				Max M _y	-18.00	-1.13	0.00	0.00	0.00	-4.61	CO 6
				Min M _y	-18.00	-1.13	0.00	0.00	0.00	-4.61	CO 6
				Max M _z	-17.50	-2.58	0.00	0.00	0.00	-2.91	CO 7
				Min M _z	-42.01	-2.55	0.00	0.00	0.00	-10.71	CO 9
				Max N	-18.50	-1.59	0.00	0.00	0.00	-0.82	CO 7
				Min N	-43.00	-2.63	0.00	0.00	0.00	-8.12	CO 9
				Max V _y	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 6
				Min V _y	-42.70	-2.89	0.00	0.00	0.00	-6.50	CO 10
				Max V _z	-35.29	-2.62	0.00	0.00	-0.00	-4.03	CO 8
				Min V _z	-18.50	-1.59	0.00	0.00	0.00	-0.82	CO 7
				Max M _T	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 6
				Min M _T	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 6
				Max M _y	-18.50	-1.59	0.00	0.00	0.00	-0.82	CO 7
				Min M _y	-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 6
				Max M _z	-18.50	-1.59	0.00	0.00	0.00	-0.82	CO 7
				RC3	2	0.000	Min M _z	-43.00	-2.63	0.00	0.00
	Max N	-17.90	-1.42				0.00	0.00	0.00	-4.27	CO 12
	Min N	-27.60	-1.71				0.00	0.00	0.00	-7.06	CO 14
	Max V _y	-18.00	-1.13				0.00	0.00	0.00	-4.61	CO 11
	Min V _y	-22.70	-1.71				0.00	0.00	0.00	-5.50	CO 13
	Max V _z	-18.00	-1.13				0.00	0.00	0.00	-4.61	CO 11
	Min V _z	-18.00	-1.13				0.00	0.00	0.00	-4.61	CO 11
	Max M _T	-18.00	-1.13				0.00	0.00	0.00	-4.61	CO 11
	Min M _T	-18.00	-1.13				0.00	0.00	0.00	-4.61	CO 11
	Max M _y	-18.00	-1.13				0.00	0.00	0.00	-4.61	CO 11
	Min M _y	-18.00	-1.13				0.00	0.00	0.00	-4.61	CO 11
	Max M _z	-17.90	-1.42				0.00	0.00	0.00	-4.27	CO 12
	20	1.000	Min M _z		-27.60	-1.71	0.00	0.00	0.00	-7.06	CO 14
			Max N		-18.90	-1.23	0.00	0.00	0.00	-2.95	CO 12
			Min N		-28.60	-1.74	0.00	0.00	0.00	-5.34	CO 14
			Max V _y		-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 11
			Min V _y		-28.60	-1.74	0.00	0.00	0.00	-5.34	CO 14
			Max V _z		-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 11
			Min V _z		-18.90	-1.23	0.00	0.00	0.00	-2.95	CO 12
			Max M _T		-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 11
			Min M _T		-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 11
			Max M _y		-18.90	-1.23	0.00	0.00	0.00	-2.95	CO 12
			Min M _y		-19.00	-1.14	0.00	0.00	-0.00	-3.48	CO 11
			Max M _z		-18.90	-1.23	0.00	0.00	0.00	-2.95	CO 12
	RC4	2	0.000	Min M _z	-28.60	-1.74	0.00	0.00	0.00	-5.34	CO 14
				Max N	-18.00	-1.13	0.00	0.00	0.00	-4.61	CO 15
				Min N	-22.80	-1.42	0.00	0.00	-0.00	-5.84	CO 16
				Max V _y	-18.00	-1.13	0.00	0.00	0.00	-4.61	CO 15
				Min V _y	-22.80	-1.42	0.00	0.00	-0.00	-5.84	CO 16
				Max V _z	-22.80	-1.42	0.00	0.00	-0.00	-5.84	CO 16
				Min V _z	-18.00	-1.13	0.00	0.00	0.00	-4.61	CO 15
				Max M _T	-18.00	-1.13	0.00	0.00	0.00	-4.61	CO 15
				Min M _T	-18.00	-1.13	0.00	0.00	0.00	-4.61	CO 15



Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases
				N	V _y	V _z	M _T	M _y	M _z	
19	RC4	20	1.000	Max M _y	-18.00	-1.13	0.00	0.00	0.00	CO 15
				Min M _y	-22.80	-1.42	0.00	0.00	-5.84	CO 16
				Max M _z	-18.00	-1.13	0.00	0.00	-4.61	CO 15
				Min M _z	-22.80	-1.42	0.00	0.00	-5.84	CO 16
				Max N	-19.00	-1.14	0.00	0.00	-3.48	CO 15
				Min N	-23.80	-1.44	0.00	0.00	-4.41	CO 16
				Max V _y	-19.00	-1.14	0.00	0.00	-3.48	CO 15
				Min V _y	-23.80	-1.44	0.00	0.00	-4.41	CO 16
				Max V _z	-19.00	-1.14	0.00	0.00	-3.48	CO 15
				Min V _z	-23.80	-1.44	0.00	0.00	-4.41	CO 16
				Max M _T	-19.00	-1.14	0.00	0.00	-3.48	CO 15
				Min M _T	-19.00	-1.14	0.00	0.00	-3.48	CO 15
				Max M _y	-23.80	-1.44	0.00	0.00	-4.41	CO 16
				Min M _y	-19.00	-1.14	0.00	0.00	-3.48	CO 15
				Max M _z	-19.00	-1.14	0.00	0.00	-3.48	CO 15
				Min M _z	-23.80	-1.44	0.00	0.00	-4.41	CO 16
				Max N	-27.20	3.55	-0.00	0.00	5.91	CO 2
				Min N	-62.91	5.05	-0.00	0.00	6.52	CO 5
				Max V _y	-52.41	5.23	0.00	0.00	7.65	CO 3
				Min V _y	-31.05	1.57	0.00	0.00	1.57	CO 1
20	RC1	21	0.000	Max V _z	-31.05	1.57	0.00	0.00	1.57	CO 1
				Min V _z	-62.91	5.05	-0.00	0.00	6.52	CO 5
				Max M _T	-31.05	1.57	0.00	0.00	1.57	CO 1
				Min M _T	-31.05	1.57	0.00	0.00	1.57	CO 1
				Max M _y	-62.91	5.05	-0.00	0.00	6.52	CO 5
				Min M _y	-31.05	1.57	0.00	0.00	1.57	CO 1
				Max M _z	-52.41	5.23	0.00	0.00	7.65	CO 3
				Min M _z	-31.05	1.57	0.00	0.00	1.57	CO 1
		22	1.000	Max N	-26.05	3.57	0.00	0.00	2.35	CO 2
				Min N	-61.76	5.10	0.00	0.00	1.44	CO 5
				Max V _y	-51.26	5.28	0.00	0.00	2.39	CO 3
				Min V _y	-29.70	1.58	0.00	0.00	-0.01	CO 1
				Max V _z	-29.70	1.58	0.00	0.00	-0.01	CO 1
				Min V _z	-29.70	1.58	0.00	0.00	-0.01	CO 1
				Max M _T	-29.70	1.58	0.00	0.00	-0.01	CO 1
				Min M _T	-29.70	1.58	0.00	0.00	-0.01	CO 1
				Max M _y	-29.70	1.58	0.00	0.00	-0.01	CO 1
				Min M _y	-29.70	1.58	0.00	0.00	-0.01	CO 1
				Max M _z	-51.26	5.28	0.00	0.00	2.39	CO 3
				Min M _z	-61.29	3.72	0.00	0.00	-0.03	CO 4
	RC2	21	0.000	Max N	-23.00	1.16	0.00	0.00	1.16	CO 6
				Min N	-47.30	3.62	0.00	0.00	4.58	CO 10
				Max V _y	-40.31	3.74	0.00	0.00	5.34	CO 8
				Min V _y	-23.00	1.16	0.00	0.00	1.16	CO 6
				Max V _z	-23.00	1.16	0.00	0.00	1.16	CO 6
				Min V _z	-23.50	2.63	-0.00	0.00	4.20	CO 7
				Max M _T	-23.00	1.16	0.00	0.00	1.16	CO 6
				Min M _T	-23.00	1.16	0.00	0.00	1.16	CO 6
				Max M _y	-23.50	2.63	-0.00	0.00	4.20	CO 7
				Min M _y	-23.00	1.16	0.00	0.00	1.16	CO 6
				Max M _z	-40.31	3.74	0.00	0.00	5.34	CO 8
				Min M _z	-23.00	1.16	0.00	0.00	1.16	CO 6
		22	1.000	Max N	-22.00	1.17	0.00	0.00	-0.01	CO 6



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

THE CROSS SECTIONS INTERNAL FORCES				Result Combination									
Member No.	RC	Node No.	Location x [m]		N	Forces [kN] V _y	V _z	M _T	Moments [kNm] M _y			M _z	Corresponding Load Cases
20	RC2			Min N	▷	-46.30	3.65	0.00	0.00	0.00	0.00	0.94	CO 10
				Max V _y	▷	-39.30	3.77	0.00	0.00	0.00	1.58	CO 8	
				Min V _y	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 6	
				Max V _z	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 6	
				Min V _z	▷	-46.00	2.74	-0.00	0.00	0.00	-0.02	CO 9	
				Max M _T	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 6	
				Min M _T	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 6	
				Max M _y	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 6	
				Min M _y	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 6	
				Max M _z	▷	-39.30	3.77	0.00	0.00	0.00	1.58	CO 8	
				Min M _z	▷	-46.00	2.74	-0.00	0.00	0.00	-0.02	CO 9	
	RC3	21	0.000	Max N	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 11	
				Min N	▷	-32.60	1.79	0.00	0.00	0.00	1.78	CO 14	
				Max V _y	▷	-32.60	1.79	0.00	0.00	0.00	1.78	CO 14	
				Min V _y	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 11	
				Max V _z	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 11	
				Min V _z	▷	-27.90	1.77	-0.00	0.00	0.00	2.08	CO 13	
				Max M _T	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 11	
				Min M _T	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 11	
				Max M _y	▷	-27.90	1.77	-0.00	0.00	0.00	2.08	CO 13	
				Min M _y	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 11	
				Max M _z	▷	-27.90	1.77	-0.00	0.00	0.00	2.08	CO 13	
				Min M _z	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 11	
		22	1.000	Max N	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11	
				Min N	▷	-31.60	1.79	0.00	0.00	0.00	-0.01	CO 14	
				Max V _y	▷	-31.60	1.79	0.00	0.00	0.00	-0.01	CO 14	
				Min V _y	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11	
				Max V _z	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11	
				Min V _z	▷	-22.10	1.46	-0.00	0.00	0.00	0.31	CO 12	
				Max M _T	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11	
				Min M _T	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11	
				Max M _y	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11	
				Min M _y	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11	
				Max M _z	▷	-22.10	1.46	-0.00	0.00	0.00	0.31	CO 12	
				Min M _z	▷	-31.60	1.79	0.00	0.00	0.00	-0.01	CO 14	
	RC4	21	0.000	Max N	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15	
				Min N	▷	-27.80	1.48	0.00	0.00	0.00	1.47	CO 16	
				Max V _y	▷	-27.80	1.48	0.00	0.00	0.00	1.47	CO 16	
				Min V _y	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15	
				Max V _z	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15	
				Min V _z	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15	
				Max M _T	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15	
				Min M _T	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15	
				Max M _y	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15	
				Min M _y	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15	
				Max M _z	▷	-27.80	1.48	0.00	0.00	0.00	1.47	CO 16	
				Min M _z	▷	-23.00	1.16	0.00	0.00	0.00	1.16	CO 15	
		22	1.000	Max N	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15	
				Min N	▷	-26.80	1.48	0.00	0.00	0.00	-0.01	CO 16	
				Max V _y	▷	-26.80	1.48	0.00	0.00	0.00	-0.01	CO 16	
				Min V _y	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15	
				Max V _z	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15	
				Min V _z	▷	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15	



Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]				Result	Corresponding
					N	V _y	V _z	M _T	M _y	M _z	Load Cases		
20	RC4			Max M _T	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15		
				Min M _T	-22.00	1.17	0.00	0.00	-0.01	CO 15			
				Max M _y	-22.00	1.17	0.00	0.00	-0.01	CO 15			
				Min M _y	-22.00	1.17	0.00	0.00	-0.01	CO 15			
				Max M _z	-22.00	1.17	0.00	0.00	-0.01	CO 15			
				Min M _z	-26.80	1.48	0.00	0.00	-0.01	CO 16			
21	RC1	22	0.000	Max N	-26.05	3.57	0.00	0.00	2.35	CO 2			
				Min N	-61.76	5.10	0.00	0.00	1.44	CO 5			
				Max V _y	-51.26	5.28	0.00	0.00	2.39	CO 3			
				Min V _y	-29.70	1.58	0.00	0.00	-0.01	CO 1			
				Max V _z	-29.70	1.58	0.00	0.00	-0.01	CO 1			
				Min V _z	-29.70	1.58	0.00	0.00	-0.01	CO 1			
				Max M _T	-29.70	1.58	0.00	0.00	-0.01	CO 1			
				Min M _T	-29.70	1.58	0.00	0.00	-0.01	CO 1			
				Max M _y	-29.70	1.58	0.00	0.00	-0.01	CO 1			
				Min M _y	-29.70	1.58	0.00	0.00	-0.01	CO 1			
				Max M _z	-51.26	5.28	0.00	0.00	2.39	CO 3			
				Min M _z	-61.29	3.72	0.00	0.00	-0.03	CO 4			
		23	1.000	Max N	-24.90	3.57	0.00	0.00	-1.22	CO 2			
				Min N	-60.61	5.08	0.00	0.00	-3.66	CO 5			
				Max V _y	-50.11	5.27	0.00	0.00	-2.89	CO 3			
				Min V _y	-28.35	1.57	0.00	0.00	-1.58	CO 1			
				Max V _z	-28.35	1.57	0.00	0.00	-1.58	CO 1			
				Min V _z	-28.35	1.57	0.00	0.00	-1.58	CO 1			
				Max M _T	-28.35	1.57	0.00	0.00	-1.58	CO 1			
				Min M _T	-28.35	1.57	0.00	0.00	-1.58	CO 1			
				Max M _y	-28.35	1.57	0.00	0.00	-1.58	CO 1			
				Min M _y	-28.35	1.57	0.00	0.00	-1.58	CO 1			
				Max M _z	-24.90	3.57	0.00	0.00	-1.22	CO 2			
				Min M _z	-60.15	3.69	0.00	0.00	-3.74	CO 4			
	RC2	22	0.000	Max N	-22.00	1.17	0.00	0.00	-0.01	CO 6			
				Min N	-46.30	3.65	0.00	0.00	0.94	CO 10			
				Max V _y	-39.30	3.77	0.00	0.00	1.58	CO 8			
				Min V _y	-22.00	1.17	0.00	0.00	-0.01	CO 6			
				Max V _z	-22.00	1.17	0.00	0.00	-0.01	CO 6			
				Min V _z	-46.00	2.74	-0.00	0.00	-0.02	CO 9			
				Max M _T	-22.00	1.17	0.00	0.00	-0.01	CO 6			
				Min M _T	-22.00	1.17	0.00	0.00	-0.01	CO 6			
				Max M _y	-22.00	1.17	0.00	0.00	-0.01	CO 6			
				Min M _y	-22.00	1.17	0.00	0.00	-0.01	CO 6			
		23	1.000	Max M _z	-39.30	3.77	0.00	0.00	1.58	CO 8			
				Min M _z	-46.00	2.74	-0.00	0.00	-0.02	CO 9			
				Max N	-21.00	1.16	0.00	0.00	-1.17	CO 6			
				Min N	-45.30	3.64	0.00	0.00	-2.70	CO 10			
				Max V _y	-38.30	3.76	0.00	0.00	-2.19	CO 8			
				Min V _y	-21.00	1.16	0.00	0.00	-1.17	CO 6			
				Max V _z	-21.00	1.16	0.00	0.00	-1.17	CO 6			
				Min V _z	-45.00	2.73	-0.00	0.00	-2.75	CO 9			
				Max M _T	-21.00	1.16	0.00	0.00	-1.17	CO 6			
				Min M _T	-21.00	1.16	0.00	0.00	-1.17	CO 6			
				Max M _y	-21.00	1.16	0.00	0.00	-1.17	CO 6			
				Min M _y	-45.00	2.73	-0.00	0.00	-2.75	CO 9			
				Max M _z	-21.50	2.64	0.00	0.00	-1.09	CO 7			



RESULTS

Project: Assignment Week 6

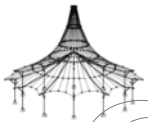
Model: B3_Frame

Date: 18/10/2021

■ 4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]						Moments [kNm]			Corresponding Load Cases																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				N	V _y	V _z	M _T	M _y	M _z																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
21	RC2 RC3	22	0.000	Min M _z	-45.00	2.73	-0.00	0.00	-0.00	-2.75	CO 9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max N	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min N	-31.60	1.79	0.00	0.00	0.00	-0.01	CO 14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max V _y	-31.60	1.79	0.00	0.00	0.00	-0.01	CO 14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min V _y	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max V _z	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min V _z	-22.10	1.46	0.00	0.00	0.00	0.31	CO 12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max M _T	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min M _T	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max M _y	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min M _y	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max M _z	-22.10	1.46	-0.00	0.00	0.00	0.31	CO 12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		23	1.000	Min M _z	-31.60	1.79	0.00	0.00	0.00	-0.01	CO 14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max N	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min N	-30.60	1.79	0.00	0.00	0.00	-1.80	CO 14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max V _y	-30.60	1.79	0.00	0.00	0.00	-1.80	CO 14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min V _y	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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				Min V _z	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max M _T	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min M _T	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max M _y	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min M _y	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max M _z	-21.10	1.46	0.00	0.00	0.00	-1.15	CO 12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	RC4	22	0.000	Min M _z	-30.60	1.79	0.00	0.00	0.00	-1.80	CO 14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max N	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min N	-26.80	1.48	0.00	0.00	0.00	-0.01	CO 16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max V _y	-26.80	1.48	0.00	0.00	0.00	-0.01	CO 16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min V _y	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max V _z	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min V _z	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max M _T	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min M _T	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max M _y	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min M _y	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max M _z	-22.00	1.17	0.00	0.00	0.00	-0.01	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		23	1.000	Min M _z	-26.80	1.48	0.00	0.00	0.00	-0.01	CO 16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max N	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min N	-25.80	1.47	0.00	0.00	0.00	-1.48	CO 16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max V _y	-25.80	1.47	0.00	0.00	0.00	-1.48	CO 16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min V _y	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max V _z	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min V _z	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max M _T	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min M _T	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max M _y	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Min M _y	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Max M _z	-21.00	1.16	0.00	0.00	0.00	-1.17	CO 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
RC1	23	0.000	Min M _z	-25.80	1.47	0.00	0.00	0.00	-1.48	CO 16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			Max N	-24.90	3.57	0.00	0.00	0.00	-1.22	CO 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			Min N	-60.61	5.08	0.00	0.00	0.00	-3.66	CO 5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			Max V _y	-50.11	5.27	0.00	0.00	0.00	-2.89	CO 3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]					Moments [kNm]				Corresponding		
				N	V _y	V _z	M _T	M _y	M _z	Load Cases					
22	RC1	24	1.000	Max V _z	-28.35	1.57	▷	0.00	0.00		0.00	-1.58	CO 1		
				Min V _z	-28.35	1.57	▷	0.00	0.00		0.00	-1.58	CO 1		
				Max M _T	-28.35	1.57		0.00	▷	0.00	0.00	-1.58	CO 1		
				Min M _T	-28.35	1.57		0.00	▷	0.00	0.00	-1.58	CO 1		
				Max M _y	-28.35	1.57		0.00		▷	0.00	0.00	-1.58	CO 1	
				Min M _y	-28.35	1.57		0.00		▷	0.00	0.00	-1.58	CO 1	
				Max M _z	-24.90	3.57		0.00		0.00	▷	0.00	-1.22	CO 2	
				Min M _z	-60.15	3.69		0.00		0.00		▷	0.00	-3.74	CO 4
				Max N	-23.75	3.55	▷	0.00		0.00		0.00	-4.78	CO 2	
				Min N	-59.46	5.00	▷	0.00		0.00		0.00	-8.71	CO 5	
				Max V _y	-48.96	5.21	▷	0.00		0.00		0.00	-8.13	CO 3	
				Min V _y	-27.00	1.56	▷	0.00		0.00		0.00	-3.15	CO 1	
				Max V _z	-27.00	1.56	▷	0.00		0.00		0.00	-3.15	CO 1	
				Min V _z	-27.00	1.56	▷	0.00		0.00		0.00	-3.15	CO 1	
				Max M _T	-27.00	1.56		0.00	▷	0.00		0.00	-3.15	CO 1	
				Min M _T	-27.00	1.56		0.00	▷	0.00		0.00	-3.15	CO 1	
				Max M _y	-27.00	1.56		0.00		▷	0.00		-3.15	CO 1	
				Min M _y	-27.00	1.56		0.00		▷	0.00		-3.15	CO 1	
				Max M _z	-27.00	1.56		0.00		0.00	▷	0.00	-3.15	CO 1	
				Min M _z	-59.46	5.00		0.00		0.00		▷	0.00	-8.71	CO 5
	RC2	23	0.000	Max N	-21.00	1.16	▷	0.00		0.00		0.00	-1.17	CO 6	
				Min N	-45.30	3.64	▷	0.00		0.00		0.00	-2.70	CO 10	
				Max V _y	-38.30	3.76	▷	0.00		0.00		0.00	-2.19	CO 8	
				Min V _y	-21.00	1.16	▷	0.00		0.00		0.00	-1.17	CO 6	
				Max V _z	-21.00	1.16	▷	0.00		0.00		0.00	-1.17	CO 6	
				Min V _z	-45.00	2.73	▷	-0.00		0.00		-0.00	-2.75	CO 9	
				Max M _T	-21.00	1.16		0.00	▷	0.00		0.00	-1.17	CO 6	
				Min M _T	-21.00	1.16		0.00	▷	0.00		0.00	-1.17	CO 6	
				Max M _y	-21.00	1.16		0.00		▷	0.00		-1.17	CO 6	
				Min M _y	-45.00	2.73		-0.00		▷	-0.00		-2.75	CO 9	
				Max M _z	-21.50	2.64		0.00		0.00		0.00	-1.09	CO 7	
				Min M _z	-45.00	2.73		-0.00		0.00		-0.00	-2.75	CO 9	
		24	1.000	Max N	-20.00	1.15	▷	0.00		0.00		0.00	-2.33	CO 6	
				Min N	-44.31	3.59	▷	-0.00		0.00		-0.00	-6.32	CO 10	
				Max V _y	-37.31	3.73	▷	0.00		0.00		0.00	-5.94	CO 8	
				Min V _y	-20.00	1.15	▷	0.00		0.00		0.00	-2.33	CO 6	
				Max V _z	-20.00	1.15	▷	0.00		0.00		0.00	-2.33	CO 6	
				Min V _z	-44.31	3.59	▷	-0.00		0.00		-0.00	-6.32	CO 10	
				Max M _T	-20.00	1.15		0.00	▷	0.00		0.00	-2.33	CO 6	
				Min M _T	-20.00	1.15		0.00	▷	0.00		0.00	-2.33	CO 6	
				Max M _y	-20.00	1.15		0.00		▷	0.00		-2.33	CO 6	
				Min M _y	-44.31	3.59		-0.00		▷	-0.00		-6.32	CO 10	
				Max M _z	-20.00	1.15		0.00		0.00	▷	0.00	-2.33	CO 6	
				Min M _z	-44.31	3.59		-0.00		0.00		-0.00	-6.32	CO 10	
	RC3	23	0.000	Max N	-21.00	1.16	▷	0.00		0.00		0.00	-1.17	CO 11	
				Min N	-30.60	1.79	▷	0.00		0.00		0.00	-1.80	CO 14	
				Max V _y	-30.60	1.79	▷	0.00		0.00		0.00	-1.80	CO 14	
				Min V _y	-21.00	1.16	▷	0.00		0.00		0.00	-1.17	CO 11	
				Max V _z	-21.00	1.16	▷	0.00		0.00		0.00	-1.17	CO 11	
				Min V _z	-21.00	1.16	▷	0.00		0.00		0.00	-1.17	CO 11	
				Max M _T	-21.00	1.16		0.00	▷	0.00		0.00	-1.17	CO 11	
				Min M _T	-21.00	1.16		0.00	▷	0.00		0.00	-1.17	CO 11	
				Max M _y	-21.00	1.16		0.00		▷	0.00		-1.17	CO 11	



Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		N	Forces [kN]		V _z	Moments [kNm]			Corresponding Load Cases		
						V _y			M _T	M _y	M _z			
22	RC3	24	1.000	Min M _y		-21.00	1.16	0.00	0.00	0.00	0.00	-1.17	CO 11	
				Max M _z		-21.10	1.46	0.00	0.00	0.00	0.00	-1.15	CO 12	
				Min M _z		-30.60	1.79	0.00	0.00	0.00	0.00	-1.80	CO 14	
				Max N		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 11	
				Min N		-29.60	1.77	0.00	0.00	0.00	0.00	-3.58	CO 14	
				Max V _y		-29.60	1.77	0.00	0.00	0.00	0.00	-3.58	CO 14	
				Min V _y		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 11	
				Max V _z		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 11	
		23	0.000	Min V _z		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 11	
				Max M _T		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 11	
				Min M _T		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 11	
				Max M _y		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 11	
				Min M _y		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 11	
				Max M _z		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 11	
				Min M _z		-29.60	1.77	0.00	0.00	0.00	0.00	-3.58	CO 14	
				Max N		-21.00	1.16	0.00	0.00	0.00	0.00	-1.17	CO 15	
	RC4	24	1.000	Min N		-25.80	1.47	0.00	0.00	0.00	0.00	-1.48	CO 16	
				Max V _y		-25.80	1.47	0.00	0.00	0.00	0.00	-1.48	CO 16	
				Min V _y		-21.00	1.16	0.00	0.00	0.00	0.00	-1.17	CO 15	
				Max V _z		-21.00	1.16	0.00	0.00	0.00	0.00	-1.17	CO 15	
				Min V _z		-21.00	1.16	0.00	0.00	0.00	0.00	-1.17	CO 15	
				Max M _T		-21.00	1.16	0.00	0.00	0.00	0.00	-1.17	CO 15	
				Min M _T		-21.00	1.16	0.00	0.00	0.00	0.00	-1.17	CO 15	
				Max M _y		-21.00	1.16	0.00	0.00	0.00	0.00	-1.17	CO 15	
		25	1.000	Min M _y		-21.00	1.16	0.00	0.00	0.00	0.00	-1.17	CO 15	
				Max M _z		-21.00	1.16	0.00	0.00	0.00	0.00	-1.17	CO 15	
				Min M _z		-25.80	1.47	0.00	0.00	0.00	0.00	-1.48	CO 16	
				Max N		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 15	
				Min N		-24.80	1.46	0.00	0.00	0.00	0.00	-2.95	CO 16	
				Max V _y		-24.80	1.46	0.00	0.00	0.00	0.00	-2.95	CO 16	
				Min V _y		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 15	
				Max V _z		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 15	
	23	RC1	24	0.000	Min V _z		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
					Max M _T		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
					Min M _T		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
					Max M _y		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
					Min M _y		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
					Max M _z		-20.00	1.15	0.00	0.00	0.00	0.00	-2.33	CO 15
					Min M _z		-24.80	1.46	0.00	0.00	0.00	0.00	-2.95	CO 16
					Max N		-23.75	3.55	0.00	0.00	0.00	0.00	-4.78	CO 2
25			1.000	Min N		-59.46	5.00	0.00	0.00	0.00	0.00	-8.71	CO 5	
				Max V _y		-48.96	5.21	0.00	0.00	0.00	0.00	-8.13	CO 3	
				Min V _y		-27.00	1.56	0.00	0.00	0.00	0.00	-3.15	CO 1	
				Max V _z		-27.00	1.56	0.00	0.00	0.00	0.00	-3.15	CO 1	
				Min V _z		-27.00	1.56	0.00	0.00	0.00	0.00	-3.15	CO 1	
				Max M _T		-27.00	1.56	0.00	0.00	0.00	0.00	-3.15	CO 1	
				Min M _T		-27.00	1.56	0.00	0.00	0.00	0.00	-3.15	CO 1	
				Max M _y		-27.00	1.56	0.00	0.00	0.00	0.00	-3.15	CO 1	
25		1.000	Min M _y		-27.00	1.56	0.00	0.00	0.00	0.00	-3.15	CO 1		
			Max M _z		-27.00	1.56	0.00	0.00	0.00	0.00	-3.15	CO 1		
			Min M _z		-59.46	5.00	0.00	0.00	0.00	0.00	-8.71	CO 5		
			Max N		-22.60	3.52	-0.00	0.00	-0.00	0.00	-8.32	CO 2		
			Min N		-58.33	4.87	-0.00	0.00	-0.00	0.00	-13.65	CO 5		



RESULTS

Project: Assignment Week 6

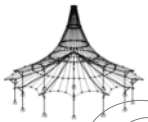
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]			Corresponding Load Cases
					N	V _y	V _z	M _T	M _y	M _z	
23	RC1			Max V _y	-47.83	5.10	0.00	0.00	0.00	-13.29	CO 3
				Min V _y	-25.65	1.54	0.00	0.00	0.00	-4.70	CO 1
				Max V _z	-25.65	1.54	0.00	0.00	0.00	-4.70	CO 1
				Min V _z	-58.33	4.87	-0.00	0.00	-0.00	-13.65	CO 5
				Max M _T	-25.65	1.54	0.00	0.00	0.00	-4.70	CO 1
				Min M _T	-25.65	1.54	0.00	0.00	0.00	-4.70	CO 1
				Max M _y	-25.65	1.54	0.00	0.00	0.00	-4.70	CO 1
				Min M _y	-58.33	4.87	-0.00	0.00	-0.00	-13.65	CO 5
				Max M _z	-25.65	1.54	0.00	0.00	0.00	-4.70	CO 1
				Min M _z	-58.33	4.87	-0.00	0.00	-0.00	-13.65	CO 5
	RC2	24	0.000	Max N	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 6
				Min N	-44.31	3.59	-0.00	0.00	-0.00	-6.32	CO 10
				Max V _y	-37.31	3.73	0.00	0.00	0.00	-5.94	CO 8
				Min V _y	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 6
				Max V _z	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 6
				Min V _z	-44.31	3.59	-0.00	0.00	-0.00	-6.32	CO 10
				Max M _T	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 6
				Min M _T	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 6
				Max M _y	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 6
				Min M _y	-44.31	3.59	-0.00	0.00	-0.00	-6.32	CO 10
		25	1.000	Max M _z	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 6
				Min M _z	-44.31	3.59	-0.00	0.00	-0.00	-6.32	CO 10
				Max N	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Min N	-43.31	3.52	0.00	0.00	0.00	-9.88	CO 10
				Max V _y	-36.31	3.67	0.00	0.00	0.00	-9.64	CO 8
				Min V _y	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Max V _z	-19.50	2.61	0.00	0.00	0.00	-6.35	CO 7
				Min V _z	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Max M _T	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Min M _T	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
	RC3	24	0.000	Max M _y	-19.50	2.61	0.00	0.00	0.00	-6.35	CO 7
				Min M _y	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Max M _z	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Min M _z	-43.31	3.52	0.00	0.00	0.00	-9.88	CO 10
				Max N	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 11
				Min N	-29.60	1.77	0.00	0.00	0.00	-3.58	CO 14
				Max V _y	-29.60	1.77	0.00	0.00	0.00	-3.58	CO 14
				Min V _y	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 11
				Max V _z	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 11
				Min V _z	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 11
25	1.000	Max M _T	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 11		
		Min M _T	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 11		
		Max M _y	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 11		
		Min M _y	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 11		
		Max M _z	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 11		
		Min M _z	-29.60	1.77	0.00	0.00	0.00	-3.58	CO 14		
		Max N	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 11		
		Min N	-28.60	1.74	0.00	0.00	0.00	-5.34	CO 14		
		Max V _y	-28.60	1.74	0.00	0.00	0.00	-5.34	CO 14		
		Min V _y	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 11		
Max V _z	-19.10	1.44	0.00	0.00	0.00	-4.05	CO 12				
Min V _z	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 11				
Max M _T	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 11				



RESULTS

Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]				Moments [kNm]				Corresponding	
				N	V _y	V _z	M _T	M _y	M _z	Load Cases			
23	RC3			Min M _T	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 11		
				Max M _y	-19.10	1.44	0.00	0.00	-4.05	CO 12			
				Min M _y	-19.00	1.14	-0.00	0.00	-3.48	CO 11			
				Max M _z	-19.00	1.14	-0.00	0.00	-3.48	CO 11			
				Min M _z	-28.60	1.74	0.00	0.00	-5.34	CO 14			
	RC4	24	0.000	Max N	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 15		
				Min N	-24.80	1.46	0.00	0.00	0.00	-2.95	CO 16		
				Max V _y	-24.80	1.46	0.00	0.00	0.00	-2.95	CO 16		
				Min V _y	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 15		
				Max V _z	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 15		
				Min V _z	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 15		
				Max M _T	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 15		
				Min M _T	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 15		
				Max M _y	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 15		
				Min M _y	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 15		
				Max M _z	-20.00	1.15	0.00	0.00	0.00	-2.33	CO 15		
				Min M _z	-24.80	1.46	0.00	0.00	0.00	-2.95	CO 16		
				25	1.000	Max N	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 15
						Min N	-23.80	1.44	0.00	0.00	0.00	-4.41	CO 16
						Max V _y	-23.80	1.44	0.00	0.00	0.00	-4.41	CO 16
						Min V _y	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 15
						Max V _z	-23.80	1.44	0.00	0.00	0.00	-4.41	CO 16
						Min V _z	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 15
	Max M _T	-19.00	1.14			-0.00	0.00	-0.00	-3.48	CO 15			
	Min M _T	-19.00	1.14			-0.00	0.00	-0.00	-3.48	CO 15			
	Max M _y	-23.80	1.44			0.00	0.00	0.00	-4.41	CO 16			
	Min M _y	-19.00	1.14			-0.00	0.00	-0.00	-3.48	CO 15			
	RC1	25	0.000	Max M _z	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 15		
Min M _z				-23.80	1.44	0.00	0.00	0.00	-4.41	CO 16			
Max N				-22.60	3.52	-0.00	0.00	-0.00	-8.32	CO 2			
Min N				-58.33	4.87	-0.00	0.00	-0.00	-13.65	CO 5			
Max V _y				-47.83	5.10	0.00	0.00	0.00	-13.29	CO 3			
Min V _y				-25.65	1.54	0.00	0.00	0.00	-4.70	CO 1			
Max V _z				-25.65	1.54	0.00	0.00	0.00	-4.70	CO 1			
Min V _z				-58.33	4.87	-0.00	0.00	-0.00	-13.65	CO 5			
Max M _T				-25.65	1.54	0.00	0.00	0.00	-4.70	CO 1			
Min M _T				-25.65	1.54	0.00	0.00	0.00	-4.70	CO 1			
Max M _y				-25.65	1.54	0.00	0.00	0.00	-4.70	CO 1			
Min M _y				-58.33	4.87	-0.00	0.00	-0.00	-13.65	CO 5			
Max M _z				-25.65	1.54	0.00	0.00	0.00	-4.70	CO 1			
Min M _z				-58.33	4.87	-0.00	0.00	-0.00	-13.65	CO 5			
3				1.000	Max N	-21.46	3.47	-0.00	0.00	-0.00	-11.81	CO 2	
	Min N	-57.19	4.68		0.00	0.00	0.00	-18.42	CO 5				
	Max V _y	-46.69	4.95		-0.00	0.00	-0.00	-18.32	CO 3				
	Min V _y	-24.30	1.51		0.00	0.00	0.00	-6.22	CO 1				
	Max V _z	-24.30	1.51		0.00	0.00	0.00	-6.22	CO 1				
	Min V _z	-46.69	4.95		-0.00	0.00	-0.00	-18.32	CO 3				
	Max M _T	-24.30	1.51		0.00	0.00	0.00	-6.22	CO 1				
	Min M _T	-24.30	1.51		0.00	0.00	0.00	-6.22	CO 1				
	Max M _y	-24.30	1.51		0.00	0.00	0.00	-6.22	CO 1				
	Min M _y	-46.69	4.95		-0.00	0.00	-0.00	-18.32	CO 3				
			Max M _z	-24.30	1.51	0.00	0.00	0.00	-6.22	CO 1			
			Min M _z	-57.19	4.68	0.00	0.00	0.00	-18.42	CO 5			



Project: Assignment Week 6

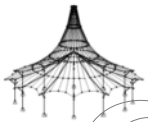
Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases		
				N	V _y	V _z	M _T	M _y	M _z			
24	RC2	25	0.000	Max N	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Min N	▽	-43.31	3.52	0.00	0.00	0.00	-9.88	CO 10
				Max V _y	▽	-36.31	3.67	0.00	0.00	0.00	-9.64	CO 8
				Min V _y	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Max V _z	▽	-19.50	2.61	0.00	0.00	0.00	-6.35	CO 7
				Min V _z	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Max M _T	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Min M _T	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Max M _y	▽	-19.50	2.61	0.00	0.00	0.00	-6.35	CO 7
				Min M _y	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Max M _z	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 6
				Min M _z	▽	-43.31	3.52	0.00	0.00	0.00	-9.88	CO 10
		3	1.000	Max N	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 6
				Min N	▽	-42.32	3.42	0.00	0.00	0.00	-13.35	CO 10
				Max V _y	▽	-35.32	3.59	0.00	0.00	0.00	-13.27	CO 8
				Min V _y	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 6
				Max V _z	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 6
				Min V _z	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 6
				Max M _T	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 6
				Min M _T	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 6
				Max M _y	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 6
				Min M _y	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 6
				Max M _z	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 6
				Min M _z	▽	-42.32	3.42	0.00	0.00	0.00	-13.35	CO 10
	RC3	25	0.000	Max N	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 11
				Min N	▽	-28.60	1.74	0.00	0.00	0.00	-5.34	CO 14
				Max V _y	▽	-28.60	1.74	0.00	0.00	0.00	-5.34	CO 14
				Min V _y	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 11
				Max V _z	▽	-19.10	1.44	0.00	0.00	0.00	-4.05	CO 12
				Min V _z	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 11
				Max M _T	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 11
				Min M _T	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 11
				Max M _y	▽	-19.10	1.44	0.00	0.00	0.00	-4.05	CO 12
				Min M _y	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 11
				Max M _z	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 11
				Min M _z	▽	-28.60	1.74	0.00	0.00	0.00	-5.34	CO 14
		3	1.000	Max N	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 11
				Min N	▽	-27.60	1.71	0.00	0.00	0.00	-7.06	CO 14
				Max V _y	▽	-22.90	1.71	-0.00	0.00	-0.00	-6.71	CO 13
				Min V _y	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 11
				Max V _z	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 11
				Min V _z	▽	-22.90	1.71	-0.00	0.00	-0.00	-6.71	CO 13
				Max M _T	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 11
				Min M _T	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 11
				Max M _y	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 11
				Min M _y	▽	-22.90	1.71	-0.00	0.00	-0.00	-6.71	CO 13
				Max M _z	▽	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 11
				Min M _z	▽	-27.60	1.71	0.00	0.00	0.00	-7.06	CO 14
RC4	25	0.000	Max N	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 15	
			Min N	▽	-23.80	1.44	0.00	0.00	0.00	-4.41	CO 16	
			Max V _y	▽	-23.80	1.44	0.00	0.00	0.00	-4.41	CO 16	
			Min V _y	▽	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 15	
			Max V _z	▽	-23.80	1.44	0.00	0.00	0.00	-4.41	CO 16	
			Min V _z	▽	-23.80	1.44	0.00	0.00	0.00	-4.41	CO 16	



Project: Assignment Week 6

Model: B3_Frame

Date: 18/10/2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]			Corresponding Load Cases
					N	V _y	V _z	M _T	M _y	M _z	
24	RC4	3	1.000	Min V _z	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 15
				Max M _T	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 15
				Min M _T	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 15
				Max M _y	-23.80	1.44	0.00	0.00	0.00	-4.41	CO 16
				Min M _y	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 15
				Max M _z	-19.00	1.14	-0.00	0.00	-0.00	-3.48	CO 15
				Min M _z	-23.80	1.44	0.00	0.00	0.00	-4.41	CO 16
				Max N	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 15
				Min N	-22.80	1.42	-0.00	0.00	-0.00	-5.84	CO 16
				Max V _y	-22.80	1.42	-0.00	0.00	-0.00	-5.84	CO 16
				Min V _y	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 15
				Max V _z	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 15
				Min V _z	-22.80	1.42	-0.00	0.00	-0.00	-5.84	CO 16
				Max M _T	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 15
				Min M _T	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 15
				Max M _y	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 15
				Min M _y	-22.80	1.42	-0.00	0.00	-0.00	-5.84	CO 16
				Max M _z	-18.00	1.13	0.00	0.00	0.00	-4.61	CO 15
				Min M _z	-22.80	1.42	-0.00	0.00	-0.00	-5.84	CO 16