



Shahid Beheshti University

Department of Mechanical and Energy Engineering

An Introduction to Finite Element Method (FEM)

Assignment # 5

Subject: **Grade and frame element**

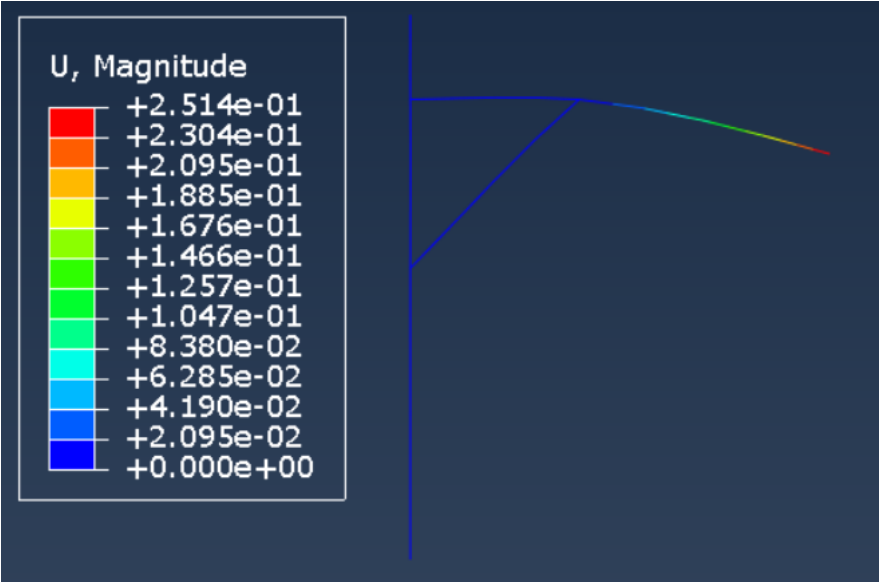
ABAQUS Results Comparison

By: **Atabak Bahadorniya**

Student ID: **96236019**

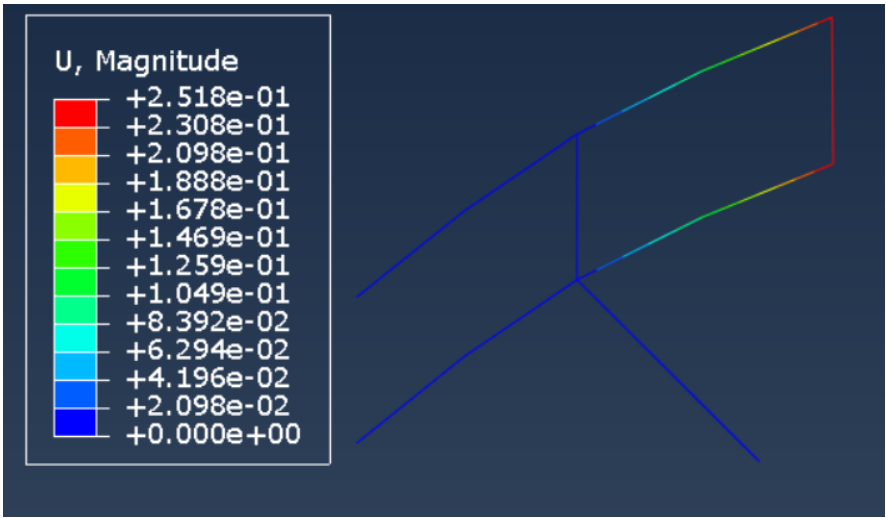
Second Semi- term of 2020-2021

60)



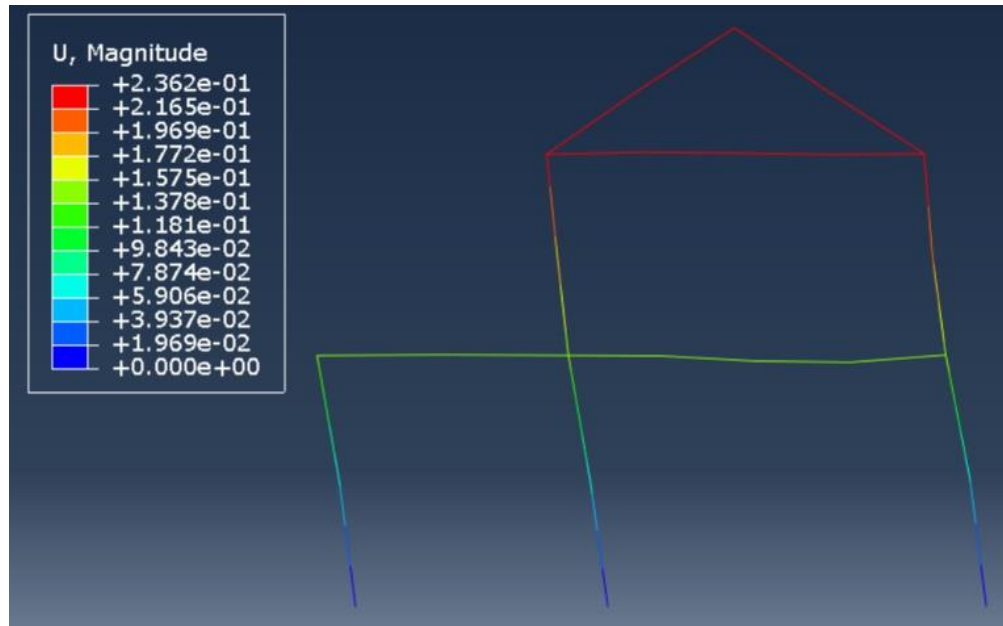
Cross brace	S6 × 12.5
Horizontal load beam	S12 × 50
Vertical support beam	S12 × 50

61)



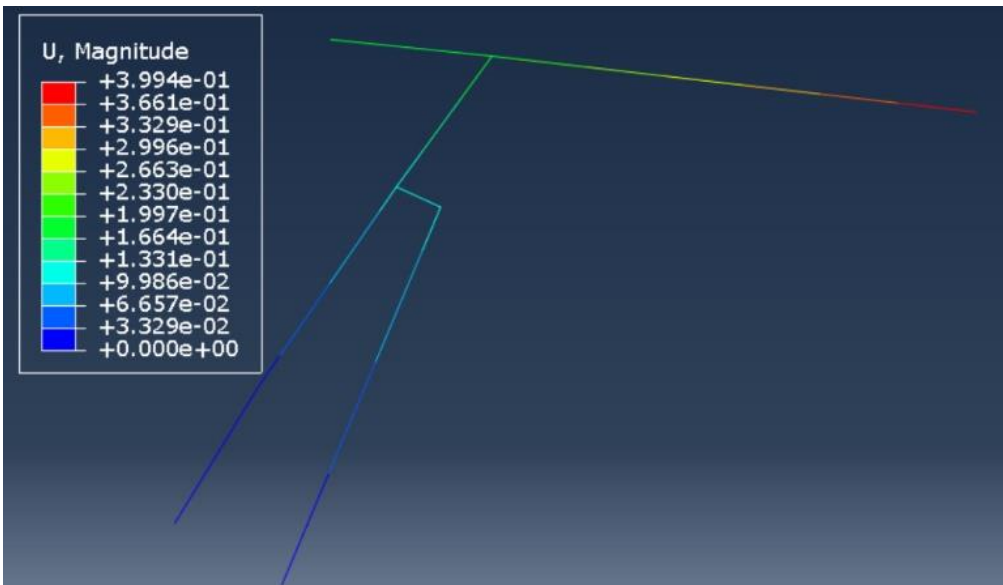
All elements	rectangular tubing. 5 in×3 in × ³ / ₈ in
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62)



horizontal and diagonal members	W 16 × 26
Vertical and column members	W 10 × 49

63)



horizontal beam	Rectangular 4×16×0.25
Vertical beam	Square 15 × 15 × 0.5

65)

