

# Week1-2020\_1005

Monday, October 12, 2020

12:36 AM

| Week | Date | Remark | Lectures  |
|------|------|--------|---|
| 1    | 5/10 | Intro  | Defining the solution methods in engineering calculations using development of algorithms (Gerber beams analysis) |

https://github.com/gtuinsaat

Gebze Technical University, Civil Engineering Department

Gebze, Kocaeli http://www.gtu.edu.tr/insaat gtuinsaatmuhendisligi@gtu.edu.tr

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| g matrices and |                 |

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repo for 512

*(Handwritten notes: 'add notebooks' with arrows pointing to the files)*

main · 1 branch · 0 tags

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ahmetanildindar Merge pull request #4 from ahmetanildindar/main ... a7218a7 1 hour ago 10 commits

| File                | Description    | Time       |
|---------------------|----------------|------------|
| .ipynb_checkpoints  | Week 2 added   | 1 hour ago |
| images              | Week 2 added   | 1 hour ago |
| EQE512-Week01.ipynb | Images added   | 1 hour ago |
| EQE512-Week02.ipynb | Week 2 added   | 1 hour ago |
| LICENSE             | Initial commit | 1 hour ago |
| README.md           | Images added   | 1 hour ago |

About

GTU-Civil Engineering Department  
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Methods in Structural Analysis by Dr.  
Ahmet Anil Dindar

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|---------------------|----------------|------|
| .ipynb_checkpoints  | Week 2 added   |      |
| images              | Week 2 added   |      |
| EQE512-Week01.ipynb | Images added   |      |
| EQE512-Week02.ipynb | Week 2 added   |      |
| LICENSE             | Initial commit |      |
| README.md           | Images added   |      |

Clone · HTTPS · GitHub CLI · <https://github.com/gtuinsaat/EQE512-Matrix-Methods-In-Structural-Analysis>

Open with GitHub Desktop · Download ZIP

1 hour ago

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*(Handwritten notes: 'DL local to your computer' with circled '1', '2', and '3' pointing to the Clone, Download ZIP, and README.md sections respectively.)*

EQE512 MATRIX METHODS IN STRUCTURAL ANALYSIS  
Dr. Ahmet Anil Dindar ([adindar@gtu.edu.tr](mailto:adindar@gtu.edu.tr))  
2020 Fall

<https://github.com/gtuinsaat/EQE512-Matrix-Methods-In-Structural-Analysis/archive/main.zip>

2. Fork

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Dr. Ahmet Atil Dindar ([adindar@gtu.edu.tr](mailto:adindar@gtu.edu.tr))  
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Challenge for you!



Static forces =  
of force is

$$f(t) = \text{constant}$$

1sec, 10sec, 60sec,

Static Forces

$$f = m \cdot a$$

$$w = m \cdot g$$

$$9.81 \text{ m/s}^2$$



2011 ✓  
90

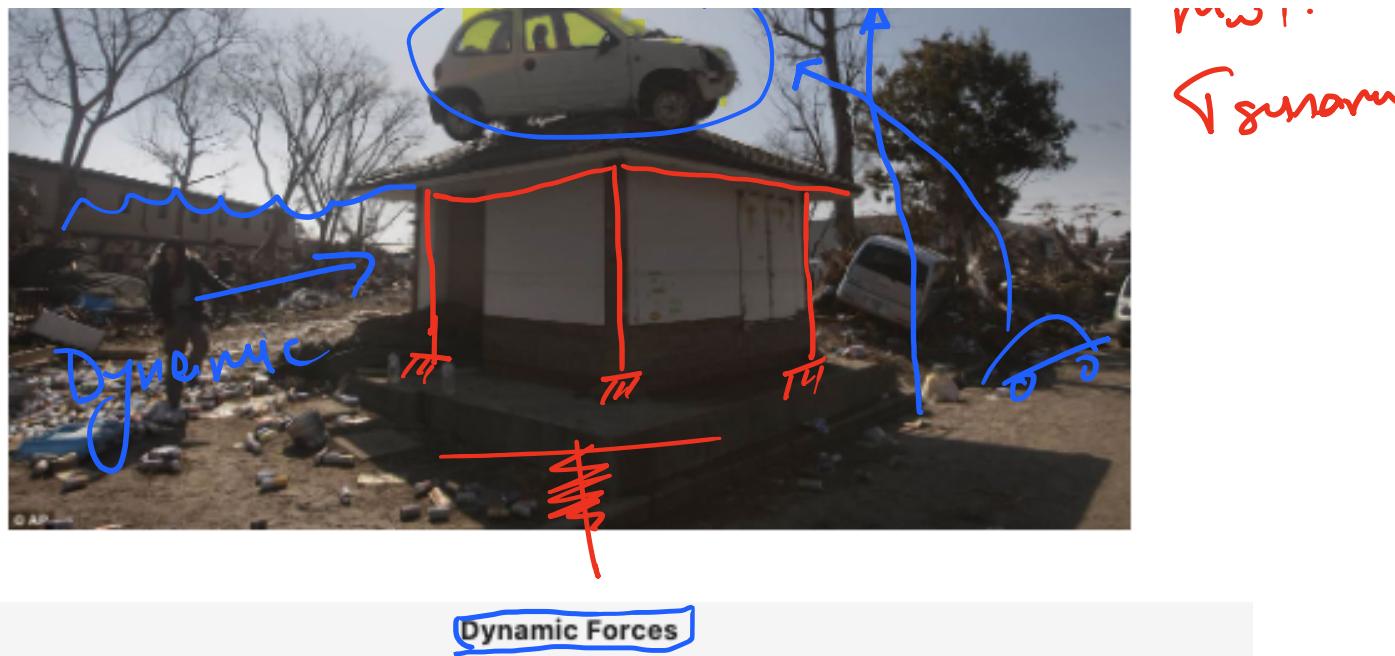
= Amplitude

not time -  
depends

A

50 years !

shaken,  $\Gamma_P$







Source: <http://www.cnn.com/2014/01/16/us/northridge-earthquake-things-learned/index.html>