

# Structural Analysis – II

## Fall Semester, 2018

### ● Instructor & TAs

Instructor : 이 해 성

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Class hour : Mon. 16:00-18:00/Wed. 16:00-18:00

### ● Text book and Reference

1. Class note (will be posted at the web site)
2. Structural Analysis - Classical and Matrix Approach  
by Jack C. McCormac and R. E. Elling
3. Elementary Structural Analysis 4th Ed. by C. H. Norris
4. Statically Indeterminate Structures by Chu-Kia Wang

### ● Class Contents

1. Brief Review of Flexibility Method (1)
2. Slope-Deflection Method (Stiffness Method) (2-5)
3. Moment-Distribution Method (6-7)
4. Buckling of Structures (8-9)
5. Energy Method (10-11)
6. Matrix Method for Structural Analysis – Direct Stiffness Method (12-16)

### ● Evaluation

1. Mid Term Exams : 40 % (Oct. 17/Nov. 14)
2. Final Exams : 30 % (Dec. 12, 16-19)
3. Home work and attendance : 30 %

### ● Prerequisite class

- Mechanics of Materials
- Structural Analysis I

### ● General Rules

- \* No cell-phone during class hour.
- \* All information presented here may be changed as needed by the instructor.
- \* Final grades are final. Absolutely no chance to alter them by any excuse.