

탄성체 역학(Elasticity)

2018 년 봄학기

Instructor : 이 해 성
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Class Hour : 11:00^{AM}-12:15^{PM} Mon., 11:00^{AM}-12:15^{PM} Wed.
조 교 : 임예슬 (35-212, 880-7349)

Text :

1. Class note by the instructor
2. A First course in Continuum Mechanics by Y. C. Fung, 3rd Edition
3. Theory of Elasticity by Timoshenko and Goodier, 3rd. Edition

Reference :

1. Foundations of Solid Mechanics by Y. C. Fung
2. Introduction to the mechanics of a continuous media by L. E. Malvern

Class Contents

1. Introduction of Elasticity (1)
2. Stress and Equilibrium (2-3)
3. Strain, Deformation and Compatibility (4-5)
4. Constitutive Equation (6)
5. Two-dimensional Problems - Plane Stress and Plane Strain (7-8)
6. Plane Problems in Polar Coordinate system (9-10)
7. Beam Problems (11)
8. Torsion (12-13)
9. Energy Method (14-15)

Evaluation

Midterm Exam × 2	: 40 % (April 9, May 14)
Final Exam	: 30 % (June 13)
Home Work & Attendance	: 30 %

Rules for Class

1. All grades including C, D, F are possible.
2. No homework will be accepted after due dates.
3. Absence from class by two times without reasonable excuse is equivalent to one homework.