

PME 534500 Theory of Elasticity

教師：葉銘泉

學分：3

教室：工一館 201室

上課時間：M3、4，R3

References:

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|--|---------------------------|
| 1. Mathematical Theory of Elasticity | by Sokolnikoff |
| 2. Theory of Elasticity | by Timoshenko and Goodier |
| 3. Foundations of Solid Mechanics | by Y. C. Fung |
| 4. Elasticity: Theory, Applications, and Numerics | by Sadd |
| 5. Elasticity | by Barber |
| 6. A Treatise on the Mathematical Theory of Elasticity | by Love |
| 7. Viscoelasticity | by Flugge |
| 8. Theory of Viscoelasticity | by Christensen |
| 9. Elastic Wave Motion | |

Course Outlines:

1. Mathematical Preliminaries
2. Analysis of Strains
3. Analysis of Stresses
4. Constitutive Equation
5. Problem classification
6. Basic Theorems
7. Torsion
8. Flexure
9. Two Dimensional Problems
10. Viscoelasticity
11. Elastic Wave Propagation