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ME 242 (AUG) 3:0

Solid Mechanics

Instructor(s): Chandrashekhar S Jog, R Narasimhan & Ramsharan Rangarajan

Course description:

Analysis of stress, analysis of strain, stress-strain relations, two-dimensional elasticity problems, airy stress functions in rectangular and polar coordinates, axisymmetric problems, energy methods, St. Venant torsion, elastic wave propagation, elastic instability and thermal stresses.

Prerequisites:

1. Fung, Y.C., Foundations of Solid Mechanics, Prentice Hall. Srinath, L.S., Advanced Mechanics of Solids, Tata McGraw Hill., Sokolnikoff, I.S., Mathematical Theory of Elasticity, Prentice Hall.
2. Fung Y C
3. Srinath. L. S.
4. Advanced Mechanics of Solids
5. Tata McGraw Hill.

Resources:

Outcomes:

Additional information:

Course website: