

For 2020 (IES, GATE & PSUs)

Strength of Materials

Contents

Chapter – 1: Stress and Strain

Chapter - 2 : Principal Stress and Strain

Chapter - 3 : Moment of Inertia and Centroid

Chapter - 4 : Bending Moment and Shear

Force Diagram

Chapter - 5 : Deflection of Beam

Chapter - 6 : Bending Stress in Beam

Chapter - 7 : Shear Stress in Beam

Chapter - 8 : Fixed and Continuous Beam

Chapter - 9 : Torsion

Chapter-10 : Thin Cylinder

Chapter-11 : Thick Cylinder

Chapter-12 : Spring

Chapter-13 : Theories of Column

Chapter-14 : Strain Energy Method

Chapter-15 : Theories of Failure



S K Mondal

S K Mondal

IES Officer (Railway), GATE topper, NTPC ET-2003 batch, 15 years teaching experienced, Author of Hydro Power Familiarization (NTPC Ltd)