



Roark's Formulas for Stress and Strain, 8th Edition (Mechanical Engineering)

By Warren Young, Richard Budynas, Ali Sadegh

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This extensively updated edition contains new chapters on fatigue and fracture mechanics, stresses in fasteners and joints, composite materials, and biomechanics. Several chapters have been expanded and new topics have been added. Each chapter now concludes with a summary of tables and formulas for ease of reference. This is the definitive resource for designers, engineers, and analysts who need to calculate stress and strain management.

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- Columns and other compression members
- Shells of revolution; pressure vessels; pipes
- Bodies in contact undergoing direct bearing and shear stress
- Elastic stability
- Dynamic and temperature stresses
- Stress concentration factors
- Fatigue and fracture mechanics

- Stresses in fasteners and joints
- Composite materials
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Editorial Review

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