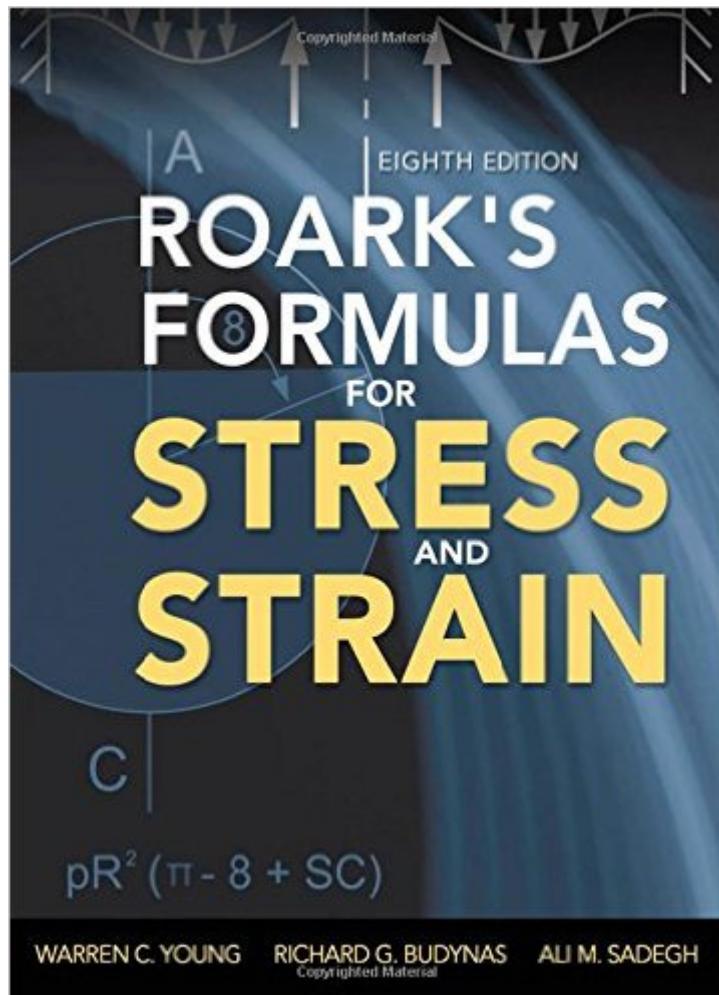


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Roark's Formulas For Stress And Strain, 8th Edition



Synopsis

THE MOST COMPLETE, UP-TO-DATE GUIDE TO STRESS AND STRAIN FORMULAS Fully revised throughout, Roark's Formulas for Stress and Strain, Eighth Edition, provides accurate and thorough tabulated formulations that can be applied to the stress analysis of a comprehensive range of structural components. All equations and diagrams of structural properties are presented in an easy-to-use, thumb, through format. 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. ROARK'S FORMULAS FOR STRESS AND STRAIN, EIGHTH EDITION, COVERS: Behavior of bodies under stress Principles and analytical methods Numerical and experimental methods Tension, compression, shear, and combined stress Beams; flexure of straight bars Bending of curved beams Torsion Flat plates 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 Biomechanics

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Customer Reviews

As the all-around handy concise reference to stress analysis, Roark's remains King. The differences

in the table of contents are listed below. The price is also quite reasonable for a 1072 pg book. Roark's strength remains in the extensive tables of many common and uncommon loading conditions and restraints. The chapters provide brief overviews of the theoretical concepts behind the tables but cannot be regarded as a teaching medium for these deep topics. For example, the chapters on fatigue & joints do not provide the education necessary to become a proficient stress analyst in these areas. Any serious stress analyst also has proficiency in an FEA package as well. Roark's formulas serve to provide terrific verification calculations to confirm FEA results are in the ballpark. Overall, there is no reason to be without this iconic textbook.

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