



Solid Mechanics in Engineering

Raymond Parnes

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This book provides a systematic, modern introduction to solid mechanics that is carefully motivated by realistic Engineering applications. Based on 25 years of teaching experience, Raymond Parnes uses a wealth of examples and a rich set of problems to build the reader's understanding of the scientific principles, without requiring 'higher mathematics'.

Highlights of the book include

- The use of modern SI units throughout
- A thorough presentation of the subject stressing basic unifying concepts
- Comprehensive coverage, including topics such as the behaviour of materials on a phenomenological level
- Over 600 problems, many of which are designed for solving with MATLAB, MAPLE or MATHEMATICA.

Solid Mechanics in Engineering is designed for 2-semester courses in Solid Mechanics or Strength of Materials taken by students in Mechanical, Civil or Aeronautical Engineering and Materials Science and may also be used for a first-year graduate program.

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