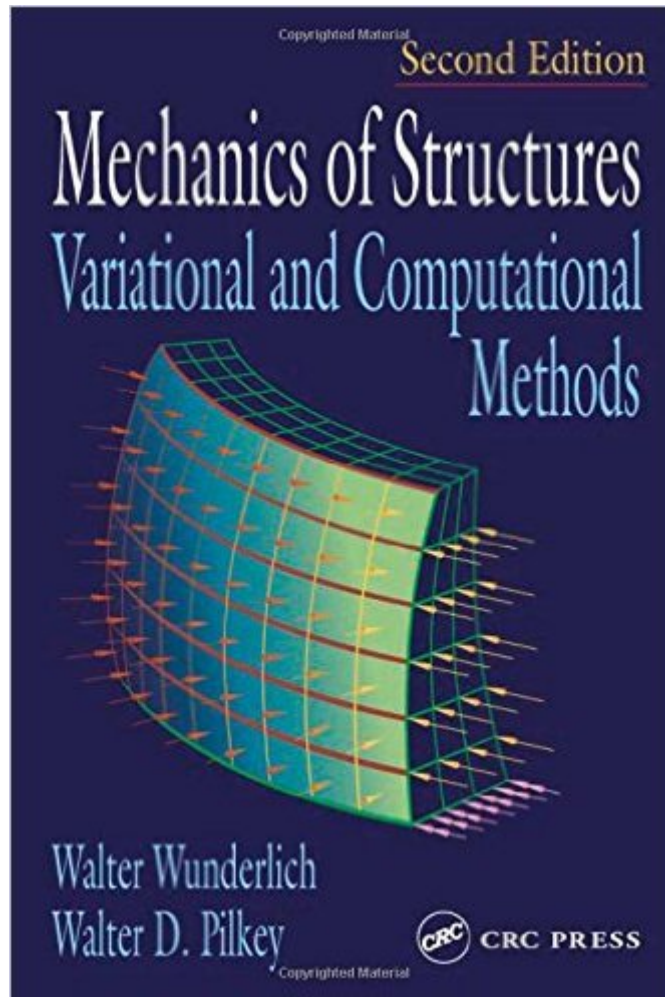


The book was found

Mechanics Of Structures Variational And Computational Methods, 2nd Edition



Synopsis

Resoundingly popular in its first edition, the second edition of *Mechanics of Structures: Variational and Computational Methods* promises to be even more so, with broader coverage, expanded discussions, and a streamlined presentation. The authors begin by describing the behavior of deformable solids through the differential equations for the strength of materials and the theory of elasticity. They next introduce variational principles, including mixed or generalized principles, and derive integral forms of the governing equations. Discussions then move to computational methods, including the finite element method, and these are developed to solve the differential and integral equations. New in the second edition: A one-dimensional introduction to the finite element method, complete with illustrations of numerical mesh refinement. Expansion of the use of Galerkin's method. Discussion of recent developments in the theory of bending and torsion of thin-walled beams. An appendix summarizing the fundamental equations in differential and variational form. Completely new treatment of stability, including detailed examples. Discussion of the principal values of geometric properties and stresses. Additional exercises. As a textbook or as a reference, *Mechanics of Structures* builds a unified, variational foundation for structure mechanics, which in turn forms the basis for the computational solid mechanics so essential to modern engineering.

Book Information

Hardcover: 874 pages

Publisher: CRC Press; 2nd edition (December 18, 2002)

Language: English

ISBN-10: 0849307007

ISBN-13: 978-0849307003

Product Dimensions: 7.3 x 2.1 x 10.2 inches

Shipping Weight: 3.8 pounds (View shipping rates and policies)

Average Customer Review: 3.0 out of 5 stars Â Â See all reviews Â (1 customer review)

Best Sellers Rank: #1,699,428 in Books (See Top 100 in Books) #142 in Â Books > Engineering & Transportation > Engineering > Materials & Material Science > Strength of Materials #1038 in Â Books > Science & Math > Physics > Mechanics #1420 in Â Books > Textbooks > Science & Mathematics > Mechanics

Customer Reviews

This book have some flaws. Tear part it

[Download to continue reading...](#)

Mechanics of Structures Variational and Computational Methods, 2nd Edition Computational Fluid Mechanics and Heat Transfer, Third Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) In Silico Medicinal Chemistry: Computational Methods to Support Drug Design (Theoretical and Computational Chemistry Series) Computational Photochemistry, Volume 16 (Theoretical and Computational Chemistry) Tensors, Differential Forms, and Variational Principles (Dover Books on Mathematics) Convex Analysis and Variational Problems (Classics in Applied Mathematics) Techniques of Variational Analysis (CMS Books in Mathematics) Stability of Structures by Finite Element Methods, Volume 40 (Studies in Applied Mechanics) Starting Out with Java: From Control Structures through Data Structures (2nd Edition) (Gaddis Series) Extended Finite Element Method: Theory and Applications (Wiley Series in Computational Mechanics) High Throughput Screening: Methods and Protocols (Methods in Molecular Biology) (Methods in Molecular Biology, 190) Computational Methods in Photochemistry (Molecular and Supramolecular Photochemistry) Molecular Modeling at the Atomic Scale: Methods and Applications in Quantitative Biology (Series in Computational Biophysics) Spectral Methods for Time-Dependent Problems (Cambridge Monographs on Applied and Computational Mathematics) Computational Methods of Feature Selection (Chapman & Hall/CRC Data Mining and Knowledge Discovery Series) A First Course in Numerical Methods (Computational Science and Engineering) Essential Ethnographic Methods: A Mixed Methods Approach, 2nd Edition (Ethnographer's Toolkit) Reinforced Concrete: Mechanics and Design (4th Edition) (Civil Engineering and Engineering Mechanics) Dynamics of Structures (4th Edition) (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Dynamics of Structures (5th Edition) (Prentice-Hall International Series I Civil Engineering and Engineering Mechanics)

[Dmca](#)