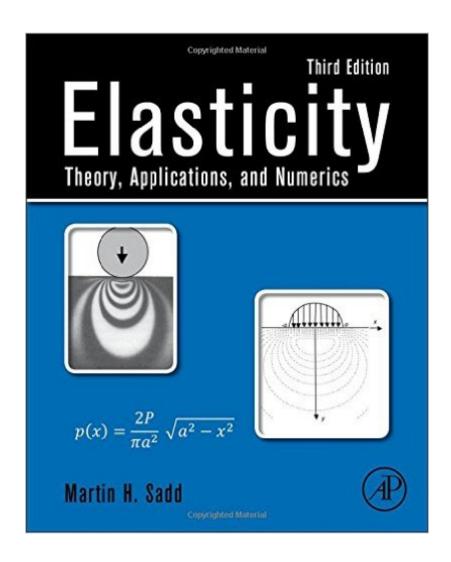
The book was found

Elasticity, Third Edition: Theory, Applications, And Numerics





Synopsis

Elasticity: Theory, Applications, and Numerics, Third Edition, continues its market-leading tradition of concisely presenting and developing the linear theory of elasticity, moving from solution methodologies, formulations, and strategies into applications of contemporary interest, such as fracture mechanics, anisotropic and composite materials, micromechanics, nonhomogeneous graded materials, and computational methods. Developed for a one- or two-semester graduate elasticity course, this new edition has been revised with new worked examples and exercises, and new or expanded coverage of areas such as spherical anisotropy, stress contours, isochromatics, isoclinics, and stress trajectories. Using MATLAB software, numerical activities in the text are integrated with analytical problem solutions. These numerics aid in particular calculations, graphically present stress and displacement solutions to problems of interest, and conduct simple finite element calculations, enabling comparisons with previously studied analytical solutions. Online ancillary support materials for instructors include a solutions manual, image bank, and a set of PowerPoint lecture slides. Thorough yet concise introduction to linear elasticity theory and applicationsOnly text providing detailed solutions to problems of nonhomogeneous/graded materialsNew material on stress contours/lines, contact stresses, curvilinear anisotropy applicationsFurther and new integration of MATLAB softwareAddition of many new exercisesComparison of elasticity solutions with elementary theory, experimental data, and numerical simulationsOnline solutions manual and downloadable MATLAB code

Book Information

Hardcover: 600 pages

Publisher: Academic Press; 3 edition (February 21, 2014)

Language: English

ISBN-10: 0124081363

ISBN-13: 978-0124081369

Product Dimensions: 1.2 x 7.8 x 9.2 inches

Shipping Weight: 3 pounds

Average Customer Review: 5.0 out of 5 stars Â See all reviews (2 customer reviews)

Best Sellers Rank: #547,066 in Books (See Top 100 in Books) #248 in Books > Engineering &

Transportation > Engineering > Civil & Environmental > Structural #292 in Books > Textbooks >

Engineering > Aeronautical Engineering #359 in Books > Science & Math > Physics > Mechanics

Customer Reviews

Took a graduate course in elasticity. Although this book was not prescribed as text, but after scrambling over half a dozen of hieroglyphic texts I stumbled upon this one. It is by no means the perfect text, but in my opinion, if you read through, its probably the easiest reads among the current graduate texts available in elasticity. Examples are well designed and helps grasp abstract theories better. I wish there were more rigorous examples worked out.

Good

Download to continue reading...

Elasticity, Third Edition: Theory, Applications, and Numerics Theory of Elasticity, Third Edition: Volume 7 (Course of Theoretical Physics) Third Eye: Awakening Your Third Eye Chakra: Beginner's Guide (Third Eye, Third Eye Chakra, Third Eye Awakening, Chakras) Third Eye: Third Eye Activation Secrets (Third Eye Awakening, Pineal Gland, Third Eye Chakra, Open Third Eye) Advanced Mechanics of Materials and Applied Elasticity (5th Edition) Advanced Mechanics of Materials and Applied Elasticity eCommerce in the Cloud: Bringing Elasticity to eCommerce Third Eye Awakening: The Ultimate Guide on How to Open Your Third Eye Chakra to Experience Higher Consciousness and a State of Enlightenment (Third Eye, Pineal Gland, Chakra, Kundalini) Fluid Flow in the Subsurface: History, Generalization and Applications of Physical Laws (Theory and Applications of Transport in Porous Media) Ergonomics: Foundational Principles, Applications, and Technologies (Ergonomics Design & Management Theory & Applications) Stochastic Integration in Banach Spaces: Theory and Applications (Probability Theory and Stochastic Modelling) Customary International Law: A New Theory with Practical Applications (ASIL Studies in International Legal Theory) Computer Organization and Design, Third Edition: The Hardware/Software Interface, Third Edition (The Morgan Kaufmann Series in Computer Architecture and Design) Applied Abstract Algebra with MapleTM and MATLAB®, Third Edition: A Maple and MATLAB Approach, Third Edition (Textbooks in Mathematics) Ethnicity and Family Therapy, Third Edition by Monica McGoldrick Published by The Guilford Press 3rd (third) edition (2005) Hardcover Intermolecular and Surface Forces, Third Edition: Revised Third Edition Third Eye: Third Eye Activation Mastery, Proven And Fast Working Techniques To Increase Awareness And Consciousness NOW! - psychic development, pineal gland - Human Computer Interaction Handbook: Fundamentals, Evolving Technologies, and Emerging Applications, Third Edition (Human Factors and Ergonomics) Handbook of Deposition Technologies for Films and Coatings, Third Edition: Science, Applications and Technology What Your Third Grader Needs to Know (Revised and Updated): Fundamentals of a Good Third-Grade Education (Core Knowledge Series)

