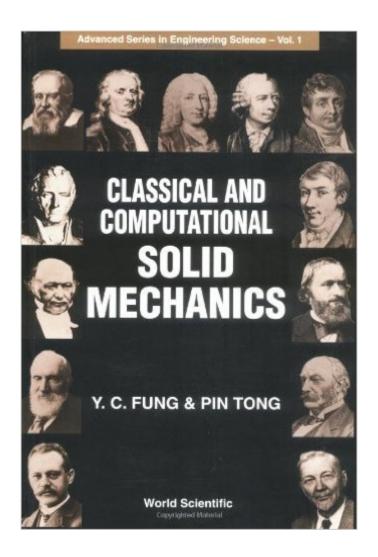
The book was found

Classical And Computational Solid Mechanics (Advanced Series In Engineering Science)





Synopsis

This invaluable book has been written for engineers and engineering scientists in a style that is readable, precise, concise, and practical. It gives first priority to the formulation of problems, presenting the classical results as the gold standard, and the numerical approach as a tool for obtaining solutions. The classical part is a revision of the well-known text Foundations of Solid Mechanics, with a much-expanded discussion on the theories of plasticity and large elastic deformation with finite strains. The computational part is all new and is aimed at solving many major linear and nonlinear boundary-value problems.

Book Information

Series: Advanced Series in Engineering Science (Book 1)

Paperback: 952 pages

Publisher: World Scientific Publishing Company (July 10, 2001)

Language: English

ISBN-10: 9810241240

ISBN-13: 978-9810241247

Product Dimensions: 6.1 x 2 x 9.2 inches

Shipping Weight: 2.9 pounds (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 stars Â See all reviews (9 customer reviews)

Best Sellers Rank: #535,046 in Books (See Top 100 in Books) #76 in Books > Textbooks >

Medicine & Health Sciences > Medicine > Biotechnology #143 in Books > Engineering &

Transportation > Engineering > Bioengineering > Biomedical Engineering #347 in Books >

Engineering & Transportation > Engineering > Bioengineering > Biotechnology

Customer Reviews

I was an acquaintance of Professor Y.C. "Burt" Fung when he wrote his classic Solid Mechanics book - "Foundations of Solid Mechanics." He had just left Cal Tech to work in the field of Biomechanics at UC San Diego. This book contains much of the same material, updated to the present time, with very nice historical writings about the founders of Solid Mechanics. This is an excellent reference for anyone that considers themself a solid mechaniker.

A great bible in solid mechanics created by 2 excellent masters from China, which have fundamental contributions to contemperary mechanics and FEM.In first part, you will read the complete methodology in classic solid mech. While in second part, the outline of FEM has been

demonstrated clearly.

It's good to have a wide overview in Solid Mechanics, but it's not very clear explaining finite non-linear deformations and finite element analysis. There are better and more modern books for that. Sometimes it's confusing.

In this book, the elastic wave is introduced in detail, and it is good for graduated student in seismological field.

To many typos for my liking.

My professor was new to teaching and, coupled with his heavy Chinese accent, it soon became obvious that a book would be necessary for me to learn and understand the material in this class. So I purchased two books before acquiring this one, and this one is by far the best of them all. It explains everything in detail and rarely skips steps when deriving an equation and always states the assumptions upon which that equation is derived. I have not read the entire book - probably about half - but the portions I have read explained concepts in a non-boring, easy-to-understand way. This book helped me a lot in class and, after the end of the course, I decided to keep it for future reference rather than sell it. This is a good book. Buy it!

Bought this book for a class I am taking. Well written and easy to understand.

The authors are very keen on this area. The book is suite for the researcher.

Download to continue reading...

Classical and Computational Solid Mechanics (Advanced Series in Engineering Science) Extended Finite Element Method: Tsinghua University Press Computational Mechanics Series Solid State Physics for Engineering and Materials Science Orbital Mechanics for Engineering Students, Third Edition (Aerospace Engineering) Computational Chemistry: Introduction to the Theory and Applications of Molecular and Quantum Mechanics Verification of Computer Codes in Computational Science and Engineering Applied Computational Aerodynamics: A Modern Engineering Approach (Cambridge Aerospace Series) A Primer For The Mathematics Of Financial Engineering, Second Edition (Financial Engineering Advanced Background Series) Solutions Manual - A Linear Algebra Primer for Financial Engineering (Financial Engineering Advanced

Background Series) (Volume 4) Introduction to Computational Social Science: Principles and Applications (Texts in Computer Science) Fluid Mechanics (McGraw-Hill Series in Mechanical Engineering) Computational Intelligence in Economics and Finance (Advanced Information Processing) Computational Actuarial Science with R (Chapman & Hall/CRC The R Series) The Construction of Modern Science: Mechanisms and Mechanics (Cambridge Studies in the History of Science) Introduction to Quantum Mechanics: in Chemistry, Materials Science, and Biology (Complementary Science) Engineering Mechanics: Statics Schaum's Outline of Engineering Mechanics: Statics (Schaum's Outlines) Engineering Mechanics: Statics (13th Edition) Engineering Fluid Mechanics Advanced Software Testing - Vol. 3, 2nd Edition: Guide to the ISTQB Advanced Certification as an Advanced Technical Test Analyst

Dmca