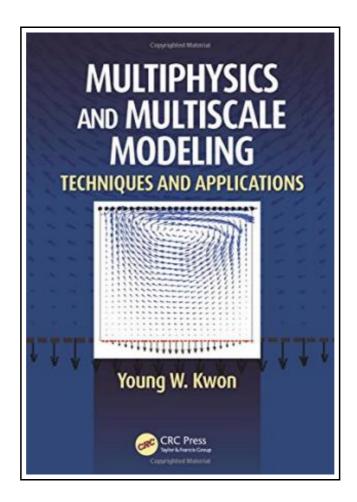
Multiphysics and Multiscale Modeling: Techniques and Applications (Hardback)



Filesize: 4.91 MB

Reviews

Most of these ebook is the perfect publication offered. Sure, it really is play, still an interesting and amazing literature. You wont truly feel monotony at whenever you want of your time (that's what catalogs are for about in the event you check with me). (Roosevelt Rohan)

MULTIPHYSICS AND MULTISCALE MODELING: TECHNIQUES AND APPLICATIONS (HARDBACK)



Apple Academic Press Inc., Canada, 2015. Hardback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book. Written to appeal to a wide field of engineers and scientists who work on multiscale and multiphysics analysis, Multiphysics and Multiscale Modeling: Techniques and Applications is dedicated to the many computational techniques and methods used to develop man-made systems as well as understand living systems that exist in nature. Presenting a body of research on multiscale and multiphysics analysis collected by the author over the years, this book provides an assessment of multiple computational techniques that include the finite element method, lattice Boltzmann method, cellular automata, and the molecular dynamics technique. The author also presents a number of example problems relevant to multiphysics and multiscale analyses, and introduces the proper coupling techniques that can be used in conjunction with computational methods to solve a multitude of multiscale and multiphysics problems. In addition, this detailed book: * Provides a simplified analysis for crystalline structures using the finite element method and molecular dynamics * Discusses multiscale analysis of biomaterials using human bones as an example * Presents multiphysics problems for composite structures * Includes fluidstructure interaction for composite structures surrounded by water * Contains an example of the multiphysics analysis of electromechanical problems * Introduces a multiphysics analysis of biomechanics using the example of blood vessels (for which there is fluidstructure interaction) Multiphysics and Multiscale Modeling: Techniques and Applications emphasizes the use of multiphysics and multiscale techniques to aid in the understanding and development of complex physical behaviors and systems. This book serves as a resource in mechanical engineering, bioengineering, and materials engineering study, practice, and research.

- Read Multiphysics and Multiscale Modeling: Techniques and Applications (Hardback)
 Online
- Download PDF Multiphysics and Multiscale Modeling: Techniques and Applications (Hardback)

Related eBooks



Children's Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]

Createspace, United States, 2013. Paperback. Book Condition: New. 254×178 mm. Language: English . Brand New Book ***** Print on Demand *****. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

Save eBook »



Programming in D: Tutorial and Reference

Ali Cehreli, 2015. Paperback. Book Condition: New. 254 x 178 mm. Language: English. Brand New Book ***** Print on Demand *****. The main aim of this book is to teach D to readers who are...

Save eBook »



Children's Handwriting Book of Alphabets and Numbers: Over 4,000 Tracing Units for the Beginning Writer

Createspace, United States, 2015. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****. The Children s Handwriting Book of Alphabets and Numbers provides extensive focus on...

Save eBook »



A Smarter Way to Learn JavaScript: The New Approach That Uses Technology to Cut Your Effort in Half

Createspace, United States, 2014. Paperback. Book Condition: New. 251 x 178 mm. Language: English. Brand New Book ***** Print on Demand *****. The ultimate learn-by-doing approach Written for beginners, useful for experienced developers who want to...

Save eBook »



Adult Coloring Book Birds: Advanced Realistic Bird Coloring Book for Adults

Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****. Take your coloring to the next level with this Advanced...

Save eBook »