

<<计算力学摘要集>>

图书基本信息

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内容概要

The impact of Computational Mechanics on engineering and technological progress started in early 60^s of the last century and continued to flourish during the entire 20th Century. From the latter part of the 20th Century and the beginning of the 21st Century till now ,it also had an impressive influence on the mathematical ,physical and biological sciences. The extensive research being carried out around the world in applying the concepts of computational mechanics to multi-physical, multi-scale problems, nano and micro mechanical simulations and biomechanics ,is a testament to this.

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书籍目录

Preface Thermo-Electro-Mechanical Materials and Systems Simulation Technique of Structural Dynamics Test for Space Vehicle Computational Electro-Magneto-Fluid-Dynamics Finite Element Method and Structure-Preserving Algorithm Shape and Topology Optimization Meshfree and Extended/Fictitious FEM Methods Large Scale Coupled Problems and Related Topics Computational Dynamics and Multibody Systems Analysis Inverse Problems in Engineering Mechanics Computational Methods in Nonlinear Dynamics Structural Dynamics , Acoustics , Human Dynamics and Its Engineering Applications Evolutionary Computation for Engineering Optimization and Grid Environment Computer Mechanics on Automobile Engineering Computational Mechanics for Electronic Materials , Electronic Devices and Electronic Packaging Virtual Tribology Fracture Mechanics Problems Interface Capturing and Fluid-Structure Interaction in Cartesian-Based Grid System Least-squares Finite Element Method DNS of Turbulence and Turbulent Combustion Nanomechanics and Multi-Scale Simulation of Multi-Physics.....

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