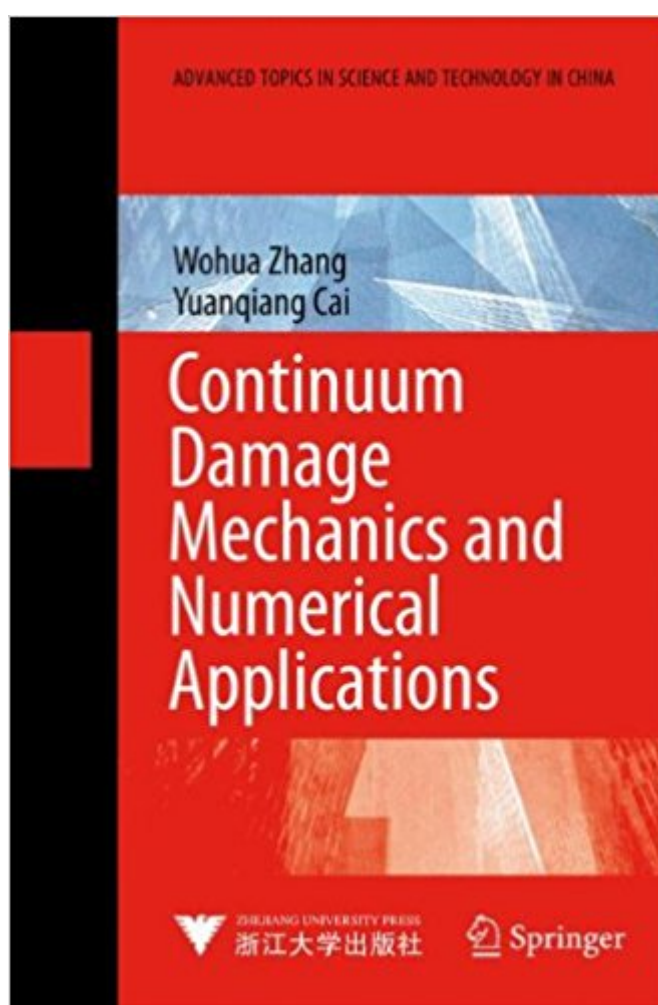


The book was found

# Continuum Damage Mechanics And Numerical Applications (Advanced Topics In Science And Technology In China)



## Synopsis

"Continuum Damage Mechanics and Numerical Applications" presents a systematic development of the theory of Continuum Damage Mechanics and its numerical engineering applications using a unified form of the mathematical formulations in anisotropic and isotropic damage models. The theoretical framework is based on the thermodynamic theory of energy and material dissipation and is described by a set of fundamental formulations of constitutive equations of damaged materials, development equations of the damaged state, and evolution equations of micro-structures.

According to concepts of damage-dissipation of the material state and effective evolution of material properties, all these advanced equations, which take nonsymmetrized effects of damage aspects into account, are developed and modified from the traditional general failure models so they are more easily applied and verified in a wide range of engineering practices by experimental testing. Dr. Wohua Zhang is a Professor at Engineering Mechanics Research Center in Zhejiang University of China. Dr. Yuanqiang Cai is a Professor at Department of Civil Engineering in Zhejiang University of China.

## Book Information

Series: Advanced Topics in Science and Technology in China

Hardcover: 1000 pages

Publisher: Springer; 2010 edition (January 14, 2011)

Language: English

ISBN-10: 3642047076

ISBN-13: 978-3642047077

Product Dimensions: 9.3 x 6.4 x 2.1 inches

Shipping Weight: 3.1 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,967,061 in Books (See Top 100 in Books) #20 in [Books > Engineering &](#)

[Transportation > Engineering > Mechanical > Tribology](#) #65 in [Books > Engineering &](#)

[Transportation > Engineering > Materials & Material Science > Fracture Mechanics](#) #602

in [Books > Textbooks > Computer Science > Artificial Intelligence](#)

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

Continuum Damage Mechanics and Numerical Applications (Advanced Topics in Science and Technology in China) China: China Travel Guide: 101 Coolest Things to Do in China (Shanghai Travel Guide, Beijing Travel Guide, Backpacking China, Budget Travel China, Chinese History)

Carbon Nanotubes: Advanced Topics in the Synthesis, Structure, Properties and Applications (Topics in Applied Physics) The Techniques of Modern Structural Geology, Volume 3: Applications of Continuum Mechanics in Structural Geology China Travel Guide: Best of Beijing - Your #1 Itinerary Planner for What to See, Do, and Eat in Beijing, China: a China Travel Guide on Beijing, Beijing ... (Wanderlust Pocket Guides - China Book 2) International Travel Maps China, Scale 1:3,800,000: Changchun, Beijing, Xian, Wuhan, Shanghai, Hong Kong, Taipei, Yellow Sea, East China Sea, South China Sea, Seoul, Delhi, Calcutta, Hanoi: Itmb China 2008 Continuum Mechanics: Concise Theory and Problems (Dover Books on Physics) Introduction to Continuum Mechanics, Fourth Edition Schaum's Outline of Continuum Mechanics Continuum Mechanics (Dover Books on Physics) Mind on Physics: Advanced Topics in Mechanics Damage Mechanics of Composite Materials, Volume 9 (Composite Materials Series) Continuum Scale Simulation of Engineering Materials: Fundamentals - Microstructures - Process Applications Advanced Molecular Quantum Mechanics: An Introduction to Relativistic Quantum Mechanics and the Quantum Theory of Radiation (Studies in Chemical Physics) Fracture and Fatigue Control in Structures: Applications of Fracture Mechanics (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Discussion of Cold Damage (Shang Han Lun): Commentaries and Clinical Applications Probabilistic fracture mechanics and reliability (Engineering Applications of Fracture Mechanics) Fracture Mechanics of Concrete: Applications of Fracture Mechanics to Concrete, Rock and Other Quasi-Brittle Materials China and Global Trade Governance: China's First Decade in the World Trade Organization (Routledge Contemporary China Series) China Travel Guide: Best of Shanghai - Your #1 Itinerary Planner for What to See, Do, and Eat in Shanghai, China: a China Travel Guide on Shanghai, Shanghai Travel Guide, Shanghai

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)