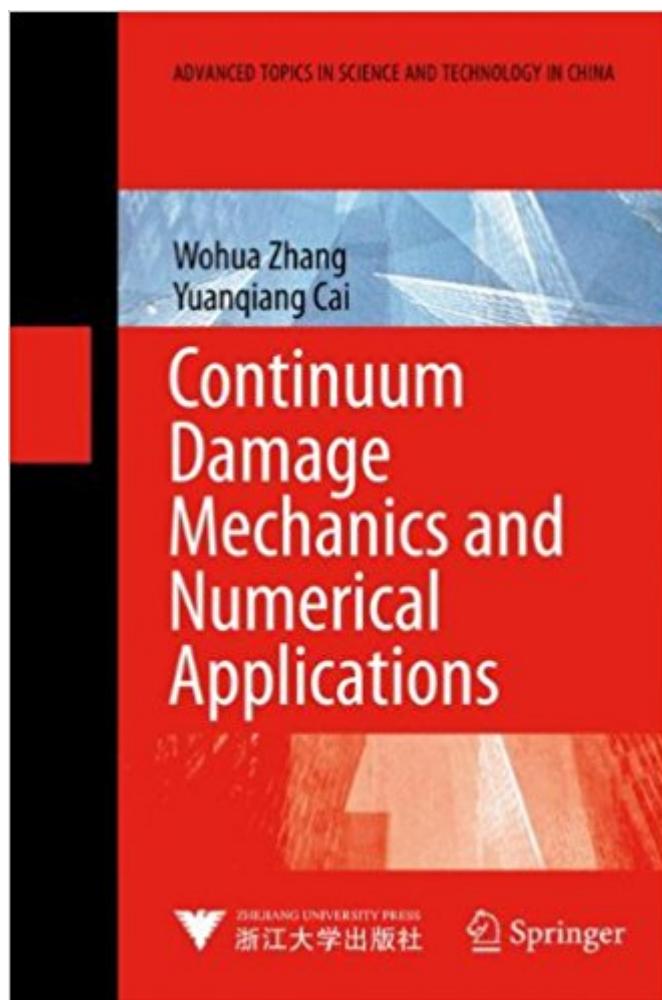


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Continuum Damage Mechanics And Numerical Applications (Advanced Topics In Science And Technology In China)



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.

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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)

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