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A Course On Damage Mechanics

J. Lemaitre

A Course on
Damage
Mechanics

Second Edition

Springer
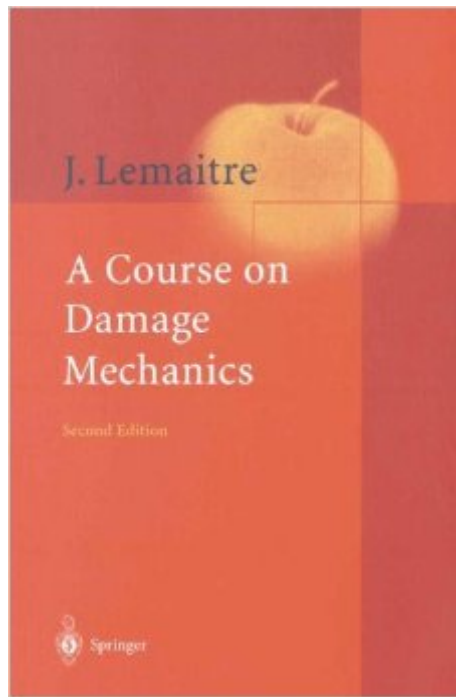
Synopsis

This second, corrected and enlarged edition teaches macroscopic modeling for the design, processing, testing, and control of mechanical components in engineering, and also includes the damage of interfaces and statistical damage analysis with microdefects. The first chapter deals with the phenomenology of damage, while the second couples damage to strains before going on to cover the three-dimensional situation. Chapter 3 is devoted to kinetic laws of damage evolution used by the author to unify many models, and the book is rounded off with several methods for predicting crack initiation. Detailed calculations and many exercises help students to apply the powerful techniques to practical problems in engineering.

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