



A Course on Damage Mechanics

By Jean Lemaitre

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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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Editorial Review

From the Back Cover

This well-established textbook teaches macroscopic modeling for design, processing, testing, and control of mechanical components in engineering. The first chapter deals with the phenomenology of damage; the second couples damage to strains and covers the three-dimensional situation; the third is devoted to kinetic laws of damage evolution used by the author to unify many models; the fourth gives 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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