



# **Damage Mechanics in Engineering Materials**

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## **Damage Mechanics in Engineering Materials**

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This book contains thirty peer-reviewed papers that are based on the presentations made at the symposium on "Damage Mechanics in Engineering Materials" on the occasion of the Joint ASME/ASCE/SES Mechanics Conference (McNU97), held in Evanston, Illinois, June 28-July 2, 1997. The key area of discussion was on the constitutive modeling of damage mechanics in engineering materials encompassing the following topics: macromechanics/micromechanical constitutive modeling, experimental procedures, numerical modeling, inelastic behavior, interfaces, damage, fracture, failure, computational methods.

The book is divided into six parts:

Study of damage mechanics. Localization and damage. Damage in brittle materials. Damage in metals and metal matrix composites. Computational aspects of damage models. Damage in polymers and elastomers.



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