



Fatigue of Materials (Cambridge Solid State Science Series) Second Edition

By S. Suresh

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By S. Suresh

This revised and updated second edition of a highly successful book provides an authoritative, comprehensive and unified treatment of the mechanics and micromechanisms of fatigue in metals, nonmetals and composites. The author, a leading researcher in the field, discusses the principles of cyclic deformation, crack initiation and crack growth by fatigue, covering both microscopic and continuum aspects. The book begins with discussions of cyclic deformation and fatigue crack initiation in monocrystalline and polycrystalline ductile alloys as well as in brittle and semi-/non-crystalline solids. Total life and damage-tolerant approaches are then introduced in metals, nonmetals and composites. This will be an important reference for anyone studying fracture and fatigue in materials science and engineering, mechanical, civil, nuclear and aerospace engineering, and biomechanics.

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Editorial Review

Review

"...a comprehensive and unified treatment of the mechanics and micromechanisms of fatigue...should be of substantial interest to researchers in the area of fatigue who desire an overview of this most important field. It would be an excellent text for a senior-graduate level course on fatigue or a supplement to courses in fracture mechanics or mechanical behavior of materials." Ceramic Abstracts

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