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Materials for Engineering: A Fundamental Design Approach

By Brian Derby; etc.; David A. Hills; Carlos Ruiz

Addison-Wesley Longman, Incorporated. Paperback. Condition: New. UNUSED, LIKE NEW, NOT EX-LIBRARY, This is an innovative text which looks at the mechanical properties of ceramics composites and polymers and those traditional metals from the perspective of the engineer that is placing the emphasis on how to deal with the material properties in design rather than concentrating on the physical properties of the materials themselves. The book will be welcomed by undergraduate students of mechanical production and materials engineering and also by practising. . 1st Edition PAPERBACK ISBN: 0582031850, 320 pages. "Materials for Engineering" looks at the mechanical properties of conventional materials and the new high-structured ceramics and composites from the viewpoint of the structural designer. Assuming an elementary knowledge of materials science, plus knowledge of the basic strength of materials, the fundamental principals of elastic design, yield criteria, brittle fracture, fracture mechanic creep, fatigue and time dependent failure are applied to modern materials engineering. Differences in mechanical behaviour are then related to the appropriate design procedures. The text has a full section of references and examples, most with solutions and a large section on composites. It covers a wide range of materials, some still in the experimental stage and uses the...


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Reviews

I actually started looking over this publication. It really is rally interesting through studying period. Once you begin to read the book, it is extremely difficult to leave it before concluding.

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