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Description. The Mechanical Behaviour of Engineering Materials aims to relate properties and structure, and to provide a theoretical basis upon which to extrapolate when conditions or materials outside previous experience arise. The present text refers primarily to metals and alloys, other (non-crystalline) solids are treated rather less fully.

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Synopsis. Primarily for use in upper level undergraduate engineering courses in Mechanical Behavior of Materials. With an eye on new technology and a concern for safety and durability in engineering design, this book covers the entire area of mechanical behavior of materials from a practical engineering viewpoint, providing a single-source introductory analysis with specific coverage on materials testing, yield criteria, stress-based fatigue, fracture mechanics, crack growth, strain-based ...

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mechanical engineering. It is in two sections - the first characterising engineering materials, the second considering structure-property relationships. Emphasis is thus placed on the relationship between structure and properties of materials, starting with the concept of 'structure' at three levels - crystal

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