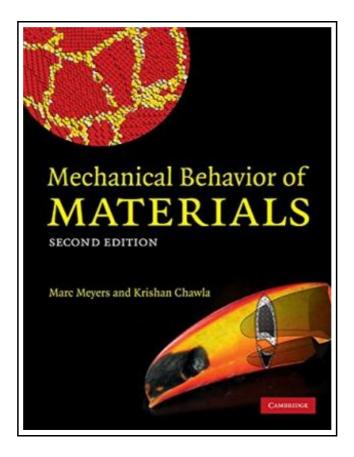
Mechanical Behavior of Materials (Second Edition)



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Reviews

Basically no words to clarify. Of course, it is perform, still an amazing and interesting literature. Its been printed in an exceptionally basic way which is only soon after i finished reading through this ebook where actually altered me, change the way i really believe.

(Newton Runolfsson)

MECHANICAL BEHAVIOR OF MATERIALS (SECOND EDITION)



Cambridge University Press, 2009. Softcover. Book Condition: New. 2nd edition. A balanced mechanics-materials approach and coverage of the latest developments in biomaterials and electronic materials, the new edition of this popular text is the most thorough and modern book available for upper-level undergraduate courses on the mechanical behavior of materials. To ensure that the student gains a thorough understanding the authors present the fundamental mechanisms that operate at micro- and nano-meter level across a widerange of materials, in a way that is mathematically simple and requires no extensive knowledge of materials. This integrated approach provides a conceptual presentation that shows how the microstructure of a material controls its mechanical behavior, and this is reinforced through extensive use of micrographs and illustrations. New worked examples and exercises help the student test their understanding. Contents Preface to the first edition Preface to the second edition 1. Materials: structure, properties and performance 2. Elasticity and viscoelasticity 3. Plasticity 4. Imperfections: point and line defects 5. Imperfections: interfacial and volumetric defects 6. Geometry of deformation and work-hardening 7. Fracture: macroscopic aspects 8. Fracture: microscopic aspects 9. Fracture testing 10. Solid solution, precipitation and dispersion strengthening 11. Martensitic transformation 12. Speciality materials: intermetallics and foams 13. Creep and superplasticity 14. Fatigue 15. Composite materials 16. Environmental effects. Printed Pages: 880.



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