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Mechanical Behavior of Materials

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ME260 Ch2 Part 1 - Mechanical Behavior, Testing, and Manufacturing Properties of Materials

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### **Mechanical Behavior of Materials - Pearson**

Mechanical Behavior of Materials and illustrations, this is the perfect textbook for a course in mechanical behavior of materials, in mechanical engineering, and materials science Marc Meyers is a Professor in the Department of NanoEngineering and Mechanical and Aerospace Engineering at the University of California, San Diego A Co-Founder and Co-Chair of the EXPLOMET Mechanical Behavior of Materials, 1990, 710 pages, Thomas...

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This textbook is for courses on Mechanical Behavior of Materials taught in departments of Mechanical Engineering and Materials Science. The text includes numerous examples and problems for student practice. The book emphasizes quantitative problem solving. End of the chapter notes are included to increase students' interest.

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Mechanical Behavior, Testing, and Manufacturing Properties of 2Materials • This chapter examines the effects of external forces on the behavior of materials, and the test methods employed in determining various mechanical properties. • The tension test is described first.

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Current mechanical behavior topics Specific and useful coverage of traditional topics includes materials testing, stress-strain behavior, yield criteria, stress-based fatigue,, and creep, as well as the newer methods of fracture mechanics, crack growth, and strain-based fatigue analysis.

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