
Fundamentals Of Solid Mechanics

Krzysztof Wilmanski

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Solid mechanics, also known

as mechanics of solids, is the branch of continuum mechanics that studies the behavior of solid materials, especially their motion and deformation under the action of forces, temperature changes, phase changes, and other external or internal agents.

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Course Description. Stress and strain, generalized Hooke's law. Mechanics of deformable bodies under torsional, shearing and bending loads. Deflection of beams and stability of columns. St. Venants semi-inverse torsion analysis. Strain energy and energy principals. Design of statically indeterminate rods, shafts, beams and columns. Professional ethics.

MAE 131A: Fundamentals of Solid Mechanics

Description

This book is primarily designed for courses in Solid Mechanics/Mechanics of Materials/Mechanics of Solids/ Strength of Materials prescribed for the undergraduate students of engineering in civil, mechanical, aeronautical and applied mechanics disciplines.

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When you learned solid mechanics, you have solved problems where you. tried to compute the deformation of a solid under some external loading. Some of this loadings may be due to the presence of a fluid. For instance, the deformation of a submarine under external pressure, or of a building in a wind.

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This distinctive textbook aims to introduce readers to the basic structures of the mechanics of deformable bodies, with a special emphasis on the description of the elastic behavior of simple materials and structures composed by elastic beams.

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