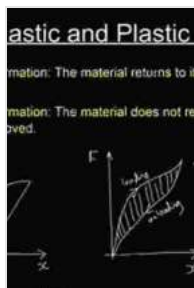


An Introduction to the Mechanics of Elastic and Plastic Deformation of Solids

By John Doe

This book provides an introduction to the mechanics of elastic and plastic deformation of solids. It covers the basic concepts of stress and strain, the yield condition, and the constitutive equations for elastic and plastic materials. The book also includes a number of solved problems and exercises to help students understand the material.



Mechanics of Materials Volume 1: An Introduction to the Mechanics of Elastic and Plastic Deformation of Solids and Structural Materials by E. J. Hearn

★★★★★ 5 out of 5

Language : English
File size : 31569 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 450 pages



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Chapter 1:

This chapter provides an overview of the mechanics of elastic and plastic deformation of solids. It discusses the importance of this field of study and the different types of problems that it can be used to solve. The chapter also introduces the basic concepts of stress and strain.

Chapter 2: Stress and Strain

This chapter covers the basic concepts of stress and strain. It discusses the different types of stress and strain, and how they are related to each other. The chapter also provides a number of examples of stress and strain in real-world applications.

Chapter 3: The Yield Condition

This chapter discusses the yield condition. The yield condition is a mathematical equation that defines the point at which a material will begin to deform plastically. The chapter covers the different types of yield conditions and how they are used to predict the behavior of materials under load.

Chapter 4: Constitutive Equations for Elastic and Plastic Materials

This chapter covers the constitutive equations for elastic and plastic materials. Constitutive equations are mathematical equations that describe the relationship between stress and strain in a material. The chapter covers the different types of constitutive equations and how they are used to model the behavior of materials.

Chapter 5: Solved Problems and Exercises

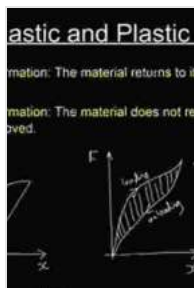
This chapter provides a number of solved problems and exercises to help students understand the material. The problems cover a variety of topics, including stress and strain, the yield condition, and constitutive equations. The exercises are designed to help students apply the concepts they have learned to real-world problems.

This book provides a comprehensive to the mechanics of elastic and plastic deformation of solids. It covers the basic concepts of stress and strain, the yield condition, and the constitutive equations for elastic and plastic materials. The book also includes a number of solved problems and exercises to help students understand the material.

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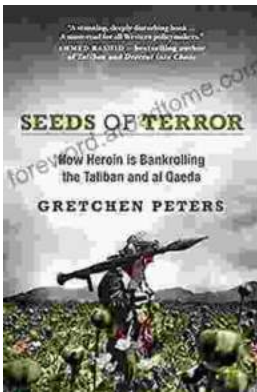
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