



Plasticity: Fundamentals and Applications

P.M. Dixit, U.S. Dixit

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Explores the Principles of Plasticity

Most undergraduate programs lack an undergraduate plasticity theory course, and many graduate programs in design and manufacturing lack a course on plasticity—leaving a number of engineering students without adequate information on the subject. Emphasizing stresses generated in the material and its effect, **Plasticity: Fundamentals and Applications** effectively addresses this need. This book fills a void by introducing the basic fundamentals of solid mechanics of deformable bodies. It provides a thorough understanding of plasticity theory, introduces the concepts of plasticity, and discusses relevant applications.

Studies the Effects of Forces and Motions on Solids

The authors make a point of highlighting the importance of plastic deformation, and also discuss the concepts of elasticity (for a clear understanding of plasticity, the elasticity theory must also be understood). In addition, they present information on updated Lagrangian and Eulerian formulations for the modeling of metal forming and machining.

Topics covered include:

- Stress
- Strain

- Constitutive relations
- Fracture
- Anisotropy
- Contact problems

Plasticity: Fundamentals and Applications enables students to understand the basic fundamentals of plasticity theory, effectively use commercial finite-element (FE) software, and eventually develop their own code. It also provides suitable reference material for mechanical/civil/aerospace engineers, material processing engineers, applied mechanics researchers, mathematicians, and other industry professionals.

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Melissa Chandler:

Reading can be called brain hangout, why? Because if you are reading a book specially book entitled Plasticity: Fundamentals and Applications your head will drift away through every dimension, wandering in every single aspect that maybe unknown for but surely can be your mind friends. Imaging every word written in a e-book then become one web form conclusion and explanation that will maybe you never get before. The Plasticity: Fundamentals and Applications giving you one more experience more than blown away your head but also giving you useful data for your better life within this era. So now let us show you the relaxing pattern this is your body and mind is going to be pleased when you are finished reading through it, like winning a game. Do you want to try this extraordinary shelling out spare time activity?

Erin Weiss:

This Plasticity: Fundamentals and Applications is great publication for you because the content which can be full of information for you who also always deal with world and possess to make decision every minute. This specific book reveal it info accurately using great arrange word or we can state no rambling sentences inside it. So if you are read this hurriedly you can have whole information in it. Doesn't mean it only provides you with straight forward sentences but tough core information with attractive delivering sentences. Having Plasticity: Fundamentals and Applications in your hand like finding the world in your arm, details in it is not ridiculous one. We can say that no guide that offer you world within ten or fifteen minute right but this publication already do that. So , this is good reading book. Hi Mr. and Mrs. hectic do you still doubt that will?

Franklin Richter:

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