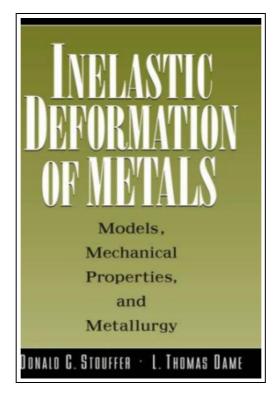
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INELASTIC DEFORMATION OF METALS: MODELS, MECHANICAL PROPERTIES AND METALLURGY (HARDBACK)



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John Wiley and Sons Ltd, United States, 1996. Hardback. Condition: New. Reprinted from ed.. Language: English. Brand New Book. Using a totally new approach, this groundbreaking book establishes the logical connections between metallurgy, materials modeling, and numerical applications. In recognition of the fact that classical methods are inadequate when time effects are present, or when certain types of multiaxial loads are applied, the new, physically based state variable method has evolved to meet these needs. Inelastic Deformation of Metals is the first comprehensive presentation of this new technology in book form. It develops physically based, numerically efficient, and accurate methods for predicting the inelastic response of metals under a variety of loading and environmental conditions. More specifically, Inelastic Deformation of Metals: Demonstrates how to use the metallurgical information to develop material models for structural simulations and low cyclic fatigue predictions. It presents the key features of classical and state variable modeling, describes the different types of models and their attributes, and provides methods for developing models for special situations. This book is innovative approach covers such new topics as multiaxial loading, thermomechanical loading, and single crystal superalloys. Provides comparisons between data and theory to help the reader make meaningful judgments about the value and accuracy of a particular model and to instill an understanding of how metals respond in real service environments. Analyzes the numerical methods associated with nonlinear constitutive modeling, including time independent, time dependent numerical procedures, time integration schemes, inversion techniques, and sub-incrementing. Inelastic Deformation of Metals is designed to give the professional engineer and advanced student new and expanded knowledge of metals and modeling that will lead to more accurate judgments and more efficient designs. In contrast to existing plasticity books, which



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