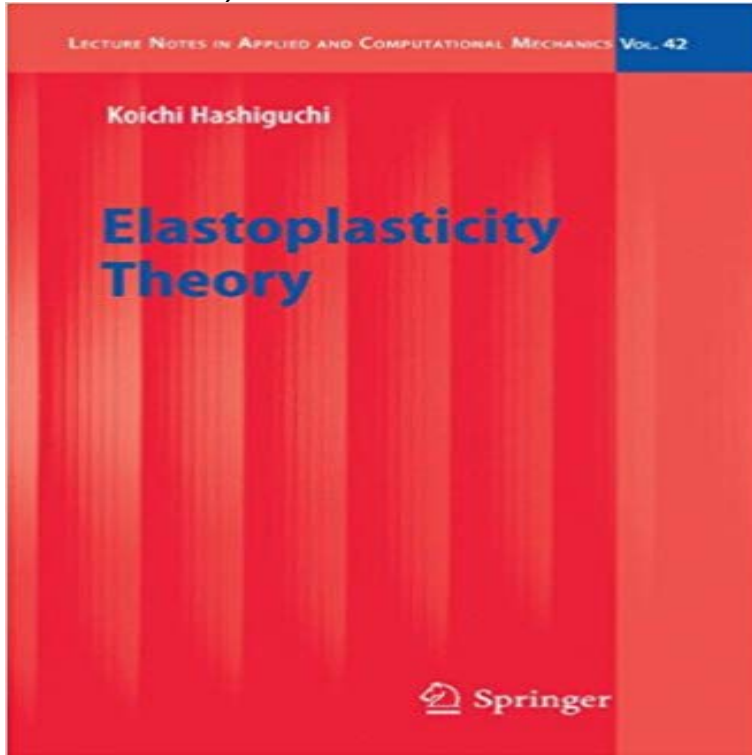


Elastoplasticity Theory (Lecture Notes in Applied and Computational Mechanics)



This book was written to serve as the standard textbook for instruction of elastoplasticity theory. It opens with an explanation of the mathematics and continuum mechanics which are necessary as a foundation of elastoplasticity theory. Subsequently, conventional and unconventional elastoplasticity theories are explained comprehensively for description of general loading behavior covering monotonic, nonproportional, and cyclic loading processes. Fundamental notions such as continuity and smoothness conditions, decomposition of deformation into elastic and plastic parts, the associated flow rule, the loading criterion and the anisotropy are defined, and then presented with their mechanical interpretations. Explicit constitutive equations of metals and soils, which are useful in engineering practice for the mechanical design of machinery and structures, are also introduced. Moreover, constitutive equations of friction with transition from static to kinetic friction and vice versa, and rotational and orthotropic anisotropy are provided. They are indispensable for analyses of boundary-value problems. A distinguishing feature of this book is that it is written to be understandable without difficulty even by beginners in the field of elastoplasticity, explaining physical backgrounds with illustrations and descriptions of detailed derivation processes without a jump. Furthermore, the history and the latest results related to elastoplasticity are explained thoroughly to the extent that the fundamentals of elastoplasticity theory can be understood and be applicable readily to analyses of engineering problems.

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