



Applied Plasticity (Mechanical Engineering Series)

Jagabandhu Chakrabarty

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Intended for graduate students in mechanical, civil, or structural engineering, or in applied mechanics, this text covers advanced topics in plasticity that have thus far been accessible only in review articles widely scattered through the literature. Practicing engineers will thus also find it a useful reference. The book begins with the fundamentals of the mathematical theory of plasticity, presented in sufficient detail to make the text self-sufficient. The discussion then turns to the theory of plastic stress and its applications to structural analysis and sheet metal forming. three-dimensional problems; of the plastic behavior of plates and shells, discussed mainly from the point of view of limit analysis; and of the plasticity of metals with fully developed orthotropic anisotropy and the plastic behavior of anisotropic sheets. The generalized tangent-modulus theory of buckling in the plastic range for columns, plates and shells is treated from the point of view of the bifurcation phenomenon. The concluding chapter deals with a wide range of topics in dynamic plasticity including wave propagation, armor penetration, and structural impact in the plastic range. In view of the rapidly growing interest in computational methods, an appendix presents the fundamentals of a finite-element analysis of metal-forming problems.

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