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An all-in-one guide to the theory and applications of plasticity in metal forming, featuring examples from the automobile and aerospace industries Provides a solid grounding in plasticity fundamentals and material properties Features models, theorems and analysis of processes and relationships related to plasticity, supported by extensive experimental data Offers a detailed discussion of recent advances and applications in metal forming

From the point of view of mechanics, this monograph systematically demonstrates the theory of plastic bending and its engineering applications; most of the contents of the book are based on the authors' research in the past decade. The monograph not only expounds the contributions of the authors to the fundamental theory of plastic bending, but also presents various applications of the theory in sheet metal forming, particularly in the analysis and prediction of springback and wrinkling of strips and plates subjected to bending or stamping. In addition to theoretical modelling, attention has also been paid to the development of related numerical methods; comparisons with experimental results are also presented.

Plasticity is concerned with understanding the behavior of metals and alloys when loaded beyond the elastic limit, whether as a result of being shaped or as they are employed for load bearing structures. Basic Engineering Plasticity delivers a comprehensive and accessible introduction to the theories of plasticity. It draws upon numerical techniques and theoretical developments to support detailed examples of the application of plasticity theory. This blend of topics and supporting textbook features ensure that this introduction to the science of plasticity will be valuable for a wide range of mechanical and

manufacturing engineering students and professionals. Brings together the elements of the mechanics of plasticity most pertinent to engineers, at both the micro- and macro-levels Covers the theory and application of topics such as Limit Analysis, Slip Line Field theory, Crystal Plasticity, Sheet and Bulk Metal Forming, as well as the use of Finite Element Analysis Clear and well-organized with extensive worked engineering application examples, and end of chapter exercises

Classical plasticity is a well established domain of mechanics and engineering, providing the basis for many engineering structural design, manufacturing processes and natural phenomena. New important characteristics are emerging in the interdisciplinary approach of micro-, meso- and macro-mechanics, and through analysis, experiments and computation. The interaction of mechanics and materials scientists is introducing tremendous changes in the two disciplines, so that the possibility of materials being processed on the microscale to achieve the desired macroscopic properties is rapidly approaching. A comprehensive overview on the latest developments in both macroplasticity and microplasticity theories, their interactions and applications in various engineering disciplines such as solid mechanics, structural analysis and geo-mechanics, materials science and technology, and metal forming and machining, is given in this volume. Case studies written by international experts focus on aspects such as the applications of plasticity in interdisciplinary and non-conventional areas. The 150 papers provide a current and useful reference source on the latest advances for both research workers and engineers in the various fields of plasticity.

The principal aim of this text is to encourage the development and application of numerical modelling techniques as an aid to achieving greater efficiency and optimization of metal-forming processes. The contents of this book have therefore been carefully planned to provide both an introduction to the fundamental theory of material deformation simulation, and also a comprehensive survey of the "state-of-the-art" of deformation modelling techniques and their application to specific and industrially relevant processes. To this end, leading international figures in the field of material deformation research have been invited to contribute chapters on subjects on which they are acknowledged experts. The information in this book has been arranged in four parts: Part I deals with plasticity theory, Part II with various numerical modelling techniques, Part III with specific process applications and material phenomena and Part IV with integrated computer systems. The objective of Part I is to establish the underlying theory of material deformation on which the following chapters can build. It begins with a chapter which reviews the basic theories of classical plasticity and describes their analytical representations. The second chapter moves on to look at the theory of deforming materials and shows how these expressions may be used in numerical techniques. The last two chapters of Part I provide a review of isotropic plasticity and anisotropic plasticity.

The aim of Plasticity Theory is to provide a comprehensive introduction to the contemporary state of knowledge in basic plasticity theory and to its applications. It treats several areas not commonly found between the covers of a single book: the physics of plasticity, constitutive theory, dynamic plasticity, large-deformation plasticity, and numerical methods, in addition to a representative survey of problems treated by classical methods, such as elastic-plastic problems, plane plastic flow, and limit analysis; the problem discussed come from areas of interest to mechanical, structural, and geotechnical engineers, metallurgists and others. The necessary mathematics and basic mechanics and thermodynamics are covered in an introductory chapter, making the book a self-contained text suitable for advanced undergraduates and graduate students, as well as a reference for practitioners of solid mechanics.

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