



Generalized Plasticity

**Askar Zhussupbekov, Assel
Sarsembayeva, Victor N. Kaliakin**

Generalized Plasticity:

Generalized Plasticity Mao-Hong Yu, 2006-05-20 Generalized Plasticity deals with the plasticity of materials and structures. It is an expansion of the Unified Strength Theory to Plasticity Theory, leading to a unified treatment of metal plasticity and plasticity of geomaterials. Generally, it includes the metal plasticity for Tresca materials, Huber von Mises materials, and twin shear materials, and the geomaterial plasticity for Mohr-Coulomb materials, generalized twin shear materials, and the Unified Strength Theory.

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Generalized Plasticity Mao-Hong Yu, 2009-09-02 Generalized Plasticity deals with the plasticity of materials and structures. It is an expansion of the Unified Strength Theory to Plasticity Theory, leading to a unified treatment of metal plasticity and plasticity of geomaterials. Generally, it includes the metal plasticity for Tresca materials, Huber von Mises materials, and twin shear materials, and the geomaterial plasticity for Mohr-Coulomb materials, generalized twin shear materials, and the Unified Strength Theory.

The Finite Element Method: Solid mechanics O. C. Zienkiewicz, Robert Leroy Taylor, 2000

Computational Geomechanics and Hydraulic Structures Sheng-Hong Chen, 2018-06-21 This book presents recent research into developing and applying computational tools to estimate the performance and safety of hydraulic structures from the planning and construction stage to the service period. Based on the results of a close collaboration between the author and his colleagues, friends, students, and field engineers, it shows how to achieve a good correlation between numerical computation and the actual in situ behavior of hydraulic structures. The book's heuristic and visualized style disseminates the philosophy and road map, as well as the findings of the research. The chapters reflect the various aspects of the three typical and practical methods: the finite element method, the block element method, and the composite element method, that the author has been working on and made essential contributions to since the 1980s. This book is an advanced continuation of *Hydraulic Structures* by the same author, published by Springer in 2015.

The Finite Element Method for Solid and Structural Mechanics O. C. Zienkiewicz, R. L. Taylor, 2013-11-08 The Finite Element Method for Solid and Structural Mechanics is the key text and reference for engineers, researchers, and senior students dealing with the analysis and modeling of structures from large civil engineering projects such as dams to aircraft structures and small engineered components. This edition brings a thorough update and rearrangement of the book's content, including new chapters on Material constitution using representative volume elements, Differential geometry and calculus on manifolds, Background mathematics and linear shell theory. Focusing on the core knowledge, mathematical and analytical tools needed for successful structural analysis and modeling, The Finite Element

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Computational Geomechanics Andrew H. C. Chan,Manuel Pastor,Bernhard A.

Schrefler,Tadahiko Shiomi,Olgierd C. Zienkiewicz,2022-03-28 COMPUTATIONAL GEOMECHANICS The new edition of the first book to cover the computational dynamic aspects of geomechanics now including more practical applications and up to date coverage of current research in the field Advances in computational geomechanics have dramatically improved understanding of the behavior of soils and the ability of engineers to design increasingly sophisticated constructions in the ground When Professor Olek Zienkiewicz began the application of numerical approaches to solid dynamics at Swansea University it became evident that realistic prediction of the behavior of soil masses could only be achieved if the total stress approaches were abandoned Computational Geomechanics introduces the theory and application of Zienkiewicz s computational approaches that remain the basis for work in the area of saturated and unsaturated soil to this day Written by past students and colleagues of Professor Zienkiewicz this extended Second Edition provides formulations for a broader range of problems including failure load under static loading saturated and unsaturated consolidation hydraulic fracturing and liquefaction of soil under earthquake loading The internationally recognized team of authors incorporates current computer technologies and new developments in the field particularly in the area of partial saturation as they guide readers on how to properly apply the formulation in their work This one of a kind volume Explains the Biot Zienkiewicz formulation for saturated and unsaturated soil Covers multiple applications to static and dynamic problems for saturated and unsaturated soil in areas such as earthquake engineering and fracturing of soils and rocks Features a completely new chapter on fast catastrophic landslides using depth integrated equations and smoothed particle hydrodynamics with applications Presents the theory of porous media in the saturated and unsaturated states to establish the foundation of the problem of soil mechanics Provides a quantitative description of soil behavior including simple plasticity models generalized plasticity and critical state soil mechanics Includes numerous questions problems hands on experiments applications to other situations and example code for GeHoMadrid Computational Geomechanics Theory and Applications Second Edition is an ideal textbook for specialist and general geotechnical postgraduate courses and a must have reference for researchers in geomechanics and geotechnical engineering for software developers and users of geotechnical finite element software and for geotechnical analysts and engineers making use of the numerical results obtained from the Biot Zienkiewicz formulation

The Finite Element Method Set O. C. Zienkiewicz,R. L. Taylor,2005-11-25 The sixth editions of these seminal books

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in the daily working activities of professionals The Handbook is divided into three volumes Volume I Deformation of Materials introduces general methodologies in the art of modeling in choosing materials and in the so called size effect Chapters 2 5 deal respectively with elasticity and viscoelasticity yield limit plasticity and visco plasticity Volume II Failures in Materials provides models on such concerns as continuous damage cracking and fracture and friction wear Volume III Multiphysics Behavior deals with multiphysics coupled behaviors Chapter s 10 and 11 are devoted to special classes of materials composites biomaterials and geomaterials The different sections within each chapter describe one model each with its domain of validity its background its formulation the identification of material parameters for as many materials as possible and advice on how to implement or use the model The study of the behavior of materials especially solids is related to hundreds of areas in engineering design and control Predicting how a material will perform under various conditions is essential to determining the optimal performance of machines and vehicles and the structural integrity of buildings as well as safety issues Such practical examples would be how various new materials such as those used in new airplane hulls react to heat or cold or sudden temperature changes or how new building materials hold up under extreme earthquake conditions The Handbook of Materials Behavior Models Gathers together 117 models of behavior of materials written by the most eminent specialists in their field Presents each model s domain of validity a short background its formulation a methodology to identify the materials parameters advise on how to use it in practical applications as well as extensive references Covers all solid materials metals alloys ceramics polymers composites concrete wood rubber geomaterials such as rocks soils sand clay biomaterials etc Concerns all engineering phenomena elasticity viscoelasticity yield limit plasticity viscoplasticity damage fracture friction and wear

Thermo-Mechanically Coupled Cyclic Deformation and Fatigue Failure of NiTi Shape Memory Alloys Guozheng Kang,Chao Yu,Qianhua Kan,2023-07-24 Written by leading experts in the field this book highlights an authoritative and comprehensive introduction to thermo mechanically coupled cyclic deformation and fatigue failure of shape memory alloys The book deals with 1 experimental observations on the cyclic deformation and fatigue failure in the macroscopic and microscopic scales 2 molecular dynamics and phase field simulations for the thermo mechanical behaviors and underlying mechanisms during cyclic deformation 3 macroscopic phenomenological and crystal plasticity based cyclic constitutive models and 4 fatigue failure models This book is an important reference for students practicing engineers and researchers who study shape memory alloys in the areas of mechanical civil and aerospace engineering as well as materials science

Geomechanics of Marine Anchors Charles Aubeny,2017-09-18 This book provides a comprehensive guide for the analysis and design of anchor systems used for mooring offshore floating structures Much of the experience is based on applications toward the offshore oil and gas industry but the substantial potential for offshore renewable energy systems is addressed The major types of anchors are described with respect to their basic design concept advantages and limitations appropriate framework for analysis and observed performance This book addresses all aspects of anchor behaviour related to

anchor design including the installation performance load capacity deformation and structural integrity of the anchor itself Coverage is also provided of appurtenant components of anchor systems in particular of anchor line chain mechanics in the soil and water columns Much of the material presented represents relatively new developments including several new anchors which have been developed within the last decade so the book will provide a useful compendium of information is largely scattered in journals and conference proceedings This book is intended for engineers engaged in offshore geotechnics and marine engineers involved in mooring system and floating structure design While the analytical methods presented in this text have a strong theoretical basis the emphasis is on simplified computational formats accessible to design engineers

Unified Strength Theory and Its Applications Mao-Hong Yu, 2017-11-21 This book thoroughly describes a theory concerning the yield and failure of materials under multi axial stresses the Unified Strength Theory which was first proposed by the author and has been frequently quoted since It provides a system of yield and failure criteria adopted for most materials from metals to rocks concretes soils and polymers This new edition includes six additional chapters General behavior of Strength theory function Visualization of the Unified Strength Theory Equivalent Stress of the UST and Comparisons with other criteria Economic Signification of the UST General form of failure criterion Beauty of Strength Theories It is intended for researchers and graduate students in various fields including engineering mechanics material mechanics plasticity soil mechanics rock mechanics mechanics of metallic materials and civil engineering hydraulic engineering geotechnical engineering mechanical engineering and military engineering

Foundations of Elastoplasticity: Subloading Surface Model Koichi Hashiguchi, 2017-05-06 This book is the standard text book of elastoplasticity in which the elastoplasticity theory is comprehensively described from the conventional theory for the monotonic loading to the unconventional theory for the cyclic loading behavior Explanations of vector tensor analysis and continuum mechanics are provided first as a foundation for elastoplasticity theory covering various strain and stress measures and their rates with their objectivities Elastoplasticity has been highly developed by the creation and formulation of the subloading surface model which is the unified fundamental law for irreversible mechanical phenomena in solids The assumption that the interior of the yield surface is an elastic domain is excluded in order to describe the plastic strain rate due to the rate of stress inside the yield surface in this model aiming at the prediction of cyclic loading behavior although the yield surface enclosing the elastic domain is assumed in all the elastoplastic models other than the subloading surface model Then the plastic strain rate develops continuously as the stress approaches the yield surface providing the advantages 1 The tangent modulus changes continuously 2 The yield judgment whether the stress reaches the yield surface is not required 3 The stress is automatically attracted to the yield surface even when it goes out from the yield surface by large loading increments in numerical calculation and 4 The finite strain theory based on the multiplicative decomposition of deformation gradient tensor is formulated exactly Consequently the monotonic the cyclic the non proportional loading behaviors for wide

classes of materials including soils rocks and concretes in addition to metals can be described rigorously by the subloading surface model Further the viscoplastic constitutive equations in a general rate from the quasi static to the impact loadings are described and constitutive equations of friction behavior and its application to the prediction of stick slip phenomena etc are also described in detail In addition the return mapping algorithm the consistent tangent modulus etc are explained for the numerical analyses Further the damage the phase transformation and the crystal plasticity models are also described in brief All of them are based on the subloading surface model The elastoplasticity analysis will be advanced steadily based on the subloading surface model

Deformation Characteristics of Geomaterials / Comportement Des Sols Et Des Roches
Tendres H. Di Benedetto, T. Doanh, H. Geoffroy, C. Sauzeat, 2003-01-01 The main themes of this conference are experimental investigations into deformation properties from very small strains to beyond failure laboratory in situ and field observation interpretations and behaviour characterization and modelling Emphasis is placed on exploring recent investigations into time related stresses and on applying advanced geotechnical testing to real engineering problems

Stochastic Dynamic Response Analysis and Performance-Based Seismic Safety Evaluation for High Concrete Faced Rockfill Dams
Bin Xu, Rui Pang, 2024-09-17 This open access book provides a complete probabilistic analysis method and a performance based seismic safety evaluation for high concrete faced rockfill dam CFRD Combined with random sample generation and reliability analysis methods the dynamic response characteristics and reliability level of CFRD under various random factors are comprehensively described In Chapter 2 a random ground motion model based on spectral representation random function and a high dimensional random variable generation method based on GF discrepancy are established Combined with probability density evolution method PDEM and the random sample generation methods to verify its effectiveness and reliability for nonlinear complex geotechnical engineering In Chapter 3 the dynamic response and probabilistic characteristics of high CFRD under random ground motion are revealed based on the elastoplastic analysis A performance based seismic safety evaluation method is established In Chapter 4 the influence of material parameter randomness on dynamic response and seismic safety of high CFRD is studied from the perspective of stochastic dynamics and probability In Chapter 5 the stochastic dynamic response and probability distribution of high CFRD under the coupled random action of ground motion and material parameters are systematically studied and the performance based seismic safety evaluation framework is improved In Chapter 6 The stochastic dynamic response of 3D high CFRD is studied and the failure performance index and performance level based on overstress volume ratio combined with overstress accumulation time are discussed The performance based seismic safety evaluation framework is further improved In Chapter 7 combined with the finite element dynamic time history analysis method considering the softening effect of rockfill a performance based seismic safety evaluation framework for dam slope stability of high CFRD under multiple random factors is systematically explored from the perspective of stochastic dynamics and probability In Chapter 8 The performance indexes of seismic safety

evaluation for high CFRDs are suggested and the corresponding performance level with probability assurance is put forward The multi seismic intensity multi performance target failure probability performance relationship is established and a performance based seismic safety evaluation framework is initially formed This book can be used as a reference for scholars studying random vibration and reliability analysis as well as for scholars studying dam safety evaluation **Numerical Methods in Geotechnical Engineering IX, Volume 1** Manuel de Matos Fernandes,2018-06-22 NUMGE 2018 is the ninth in a series of conferences on Numerical Methods in Geotechnical Engineering organized by the ERTC7 under the auspices of the International Society for Soil Mechanics and Geotechnical Engineering ISSMGE The first conference was held in 1986 in Stuttgart Germany and the series continued every four years 1990 Santander Spain 1994 Manchester United Kingdom 1998 Udine Italy 2002 Paris France 2006 Graz Austria 2010 Trondheim Norway 2014 Delft The Netherlands The conference provides a forum for exchange of ideas and discussion on topics related to numerical modelling in geotechnical engineering Both senior and young researchers as well as scientists and engineers from Europe and overseas are invited to attend this conference to share and exchange their knowledge and experiences This work is the first volume of NUMGE 2018

Microscopic structure effect on the macroscopic property of geomaterials Qingxiang Meng,Wei Wang,Huanling Wang,Wanqing Shen,Chun Zhu,2023-03-17

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