

Dimitrios Kolymbas (Ed.)

Advanced Mathematical and Computational Geomechanics



Springer

Advanced Mathematical And Computational Geomechanics Lecture Notes In Applied And Computational Mechanics

S. Stupkiewicz



Advanced Mathematical And Computational Geomechanics Lecture Notes In Applied And Computational Mechanics:

Advanced Mathematical and Computational Geomechanics Dimitrios Kolymbas, 2013-03-19 Geomechanics is the mechanics of geomaterials i.e. soils and rocks and deals with fascinating problems such as settlements stability of excavations tunnels and offshore platforms landslides earthquakes and liquefaction This edited book presents recent mathematical and computational tools and models to describe and simulate such problems in Geomechanics and Geotechnical Engineering It includes a collection of contributions emanating from the three Euroconferences GeoMath Mathematical Methods in Geomechanics that were held between 2000 and 2002 in Innsbruck Austria and Horta Greece Computational Plasticity Mao-Hong Yu, Jian-Chun Li, 2012-12-02 Computational Plasticity with Emphasis on the Application of the Unified Strength Theory explores a new and important branch of computational mechanics and is the third book in a plasticity series published by Springer The other two are Generalized Plasticity Springer Berlin 2006 and Structural Plasticity Springer and Zhejiang University Press Hangzhou 2009 This monograph describes the unified strength theory and associated flow rule the implementation of these basic theories in computational programs and shows how a series of results can be obtained by using them The unified strength theory has been implemented in several special nonlinear finite element programs and commercial Finite Element Codes by individual users and corporations Many new and interesting findings for beams plates underground caves excavations strip foundations circular foundations slop underground structures of hydraulic power stations pumped storage power stations underground mining high velocity penetration of concrete structures ancient structures and rocket components along with relevant computational results are presented This book is intended for graduate students researchers and engineers working in solid mechanics engineering and materials science The theories and methods provided in this book can also be used for other computer codes and different structures More results can be obtained which put the potential strength of the material to better use thus offering material saving and energy saving solutions Mao Hong Yu is a professor at the Department of Civil Engineering at Xi'an Jiaotong University Xi'an China

Computational Engineering Günter Hofstetter, 2014-05-15 The book presents state of the art works in computational engineering Focus is on mathematical modeling numerical simulation experimental validation and visualization in engineering sciences In particular the following topics are presented constitutive models and their implementation into finite element codes numerical models in nonlinear elasto dynamics including seismic excitations multiphase models in structural engineering and multiscale models of materials systems sensitivity and reliability analysis of engineering structures the application of scientific computing in urban water management and hydraulic engineering and the application of genetic algorithms for the registration of laser scanner point clouds **Uncertainty, Modeling, and Decision Making in**

Geotechnics Kok-Kwang Phoon, Takayuki Shuku, Jianye Ching, 2023-12-11 Uncertainty Modeling and Decision Making in

Geotechnics shows how uncertainty quantification and numerical modeling can complement each other to enhance decision making in geotechnical practice filling a critical gap in guiding practitioners to address uncertainties directly The book helps practitioners acquire a working knowledge of geotechnical risk and reliability methods and guides them to use these methods wisely in conjunction with data and numerical modeling In particular it provides guidance on the selection of realistic statistics and a cost effective accessible method to address different design objectives and for different problem settings and illustrates the value of this to decision making using realistic examples Bringing together statistical characterization reliability analysis reliability based design probabilistic inverse analysis and physical insights drawn from case studies this reference guide from an international team of experts offers an excellent resource for state of the practice uncertainty informed geotechnical design for specialist practitioners and the research community

Databases for Data-Centric

Geotechnics Chong Tang,Kok-Kwang Phoon,2024-12-20 Databases for Data Centric Geotechnics forms a definitive reference and guide to databases in geotechnical and rock engineering to enhance decision making in geotechnical practice using data driven methods This second volume pertains to geotechnical structures The opening chapter presents a substantial survey of performance databases and the effectiveness of our prediction models in matching the field measurements in these databases based on 1 full scale field tests 2 39 prediction exercises organized as a part of international conferences and 3 comparison between numerical analyses and in situ or field measurements conducted by the French LCPC The focus is on the evaluation of the statistical degree of confidence in predicting various of quantities of interest such as capacity and deformation The following 18 chapters then present databases on the performance of shallow foundations spudcan foundations deep foundations anchors and pipelines retaining systems and excavations and landslides The databases were compiled from studies undertaken in many countries such as Australia Belgium Bolivia Brazil Canada China Egypt France Germany Hungary Iran Ireland Japan Kenya Malaysia Netherlands Norway Poland Portugal South Africa the United Kingdom and the United States This volume on geotechnical structures is a companion to the volume on site characterization Databases for Data Centric Geotechnics represents the most diverse and comprehensive assembly of database research in a single publication consisting of two volumes to date It follows from Model Uncertainties for Foundation Design also published by CRC Press and suits specialist geotechnical engineers researchers and graduate students Chapter 10 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution CC BY 4.0 license

Mechanical Modelling and Computational Issues in Civil Engineering Michel Fremond,Franco

Maceri,2006-07-16 In this edited book various novel approaches to problems of modern civil engineering are demonstrated Experts associated within the Lagrange Laboratory present recent research results in civil engineering dealing both with modelling and computational aspects Many modern topics are covered such as monumental dams soil mechanics and geotechnics granular media contact and friction problems damage and fracture new structural materials and vibration

damping presenting the state of the art of mechanical modelling and computational issues in civil engineering *18th International Brick and Block Masonry Conference* Gabriele Milani, Bahman Ghiassi, 2024-12-12 This book highlights the latest advances innovations and applications in the field of masonry structures and constructions as presented by leading international researchers at the 18th International Brick and Block Masonry Conference IB2MaC held in Birmingham UK on July 21 24 2024 Conference topics include architecture with masonry analysis of masonry structures bricks and blocks mortars repair strengthening and retrofitting conservation of historical heritage new construction techniques seismic engineering durability and deterioration of materials energy efficiency AI and masonry The contributions which were selected by means of a rigorous international peer review process present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists *An Introduction to Computational Micromechanics* Tarek I. Zohdi, Peter Wriggers, 2008-03-15 In this its second corrected printing Zohdi and Wriggers illuminating text presents a comprehensive introduction to the subject The authors include in their scope basic homogenization theory microstructural optimization and multifield analysis of heterogeneous materials This volume is ideal for researchers and engineers and can be used in a first year course for graduate students with an interest in the computational micromechanical analysis of new materials **Micromechanics of Contact and Interphase Layers** S. Stupkiewicz, 2007-04-16 Micromechanics provides a link between the structure and the properties at different scales of observation This book deals with micromechanical analysis of interfaces and interface layers and presents several modelling tools ranging from the rigorous method of asymptotic expansions to practical finite element simulations suitable for this class of problems Two application areas are discussed Boundary layers associated with contact of rough bodies are modelled by applying a scale transition approach in which a macroscopic interface of zero thickness is seen at the micro scale as a layer with some finite thickness Secondly evolution of laminated microstructures accompanying stress induced martensitic transformations in shape memory alloys SMA is analyzed as an illustration of the case when the local interfacial phenomena here the propagation of phase transformation fronts govern the macroscopic behaviour of a heterogeneous material The corresponding two parts of the book are self contained so they can be read separately by those interested only in micromechanical modelling of contact phenomena or in modelling of pseudoelasticity and stress induced martensitic microstructures in SMA single crystals *Computational Modelling of Concrete Structures* Gunther Meschke, René de Borst, Herbert Mang, Nenad Bicanic, 2020-11-26 This conference proceedings brings together the work of researchers and practising engineers concerned with computational modelling of complex concrete reinforced concrete and prestressed concrete structures in engineering practice The subjects considered include computational mechanics of concrete and other cementitious materials including masonry Advanced discretisation methods and microstructural aspects within multi field and multi scale settings are discussed as well as modelling formulations and constitutive modelling frameworks and novel

experimental programmes The conference also considered the need for reliable high quality analysis and design of concrete structures in regard to safety critical structures with a view to adopting these in codes of practice or recommendations The book is of special interest to researchers in computational mechanics and industry experts in complex nonlinear simulations of concrete structures

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