

Michel Fremond
Franco Maceri (Eds.)

Mechanical Modelling and Computational Issues in Civil Engineering

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**Paulo Flores, Jorge Ambrósio, J.C.
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Mechanical Modelling And Computational Issues In Civil Engineering:

Mechanical Modelling and Computational Issues in Civil Engineering Michel Fremond, Franco Maceri, 2005-04-27
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. *Mechanical Modelling and Computational Issues in Civil Engineering* Michel Fremond, Franco Maceri, 2009-09-02
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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. **Masonry Constructions: Mechanical Models and Numerical Applications** Massimiliano Lucchesi, Cristina Padovani, Giuseppe Pasquinelli, Nicola Zani, 2008-05-13
Many historically and artistically important masonry buildings of the world's architectural heritage are in dire need of maintenance and restoration. In order to optimize such operations in terms of cost effectiveness, architectural impact and static effectiveness, accurate models of the structural behavior of masonry constructions are invaluable. The ultimate aim of such modeling is to obtain important information such as the stress field and to estimate the extent of cracking and its evolution when the structure is subjected to variations in both boundary and loading conditions. Although masonry has been used in building for centuries, it is only recently that constitutive models and calculation techniques have been available that enable realistic description of the static behavior of structures made of this heterogeneous material whose response to tension is fundamentally different from that to compression. Important insights on the mechanical behavior of masonry arches and vaults come from as far back as Leonardo da Vinci, Robert Hooke, Galileo Galilei, and many other authors. See 47, 9 and 10 for detailed references. Castiglione in his famous paper on the Mosca bridge (23) and Signorini in his studies on masonry beams (97, 98) showed both the possibility and necessity of taking

into account the weak tensile strength of masonry material

Multifield Problems in Solid and Fluid Mechanics Rainer Helmig, Alexander Mielke, Barbara I. Wohlmuth, 2006-11-28 Understanding the interaction between various processes is a prerequisite for solving problems in natural and engineering sciences Many phenomena can not be described by concentrating on them in isolation therefore multifield models and concepts that include various kinds of field problems and processes are needed This book summarizes the main scientific results of the Collaborative Research Center on Multifield Problems in Continuum Mechanics Sonderforschungsbereich Mehrfeldprobleme in der Kontinuumsmechanik SFB 404 funded by the German Research Foundation DFG from 1995 2006 The book is divided into three main sections A Volume Coupled Problems devoted to fields which are coupled inside the processing domain or volume B Boundary Coupled Problems here physical fields and processes are coupled via domain boundaries C Fundamental Methods search into the mathematical concepts and backgrounds of multifield and multiscale modeling

Stability and Convergence of Mechanical Systems with Unilateral Constraints Remco I. Leine, Nathan van de Wouw, 2007-12-29 Stability of motion is a central theme in the dynamics of mechanical systems While the stability theory for systems with bilateral constraints is a well established field this monograph represents a systematic study of mechanical systems with unilateral constraints such as unilateral contact impact and friction Such unilateral constraints give rise to non smooth dynamical models for which stability theory is developed in this work The book starts with the treatise of the mathematical background on non smooth analysis measure and integration theory and an introduction to the field of non smooth dynamical systems The unilateral constraints are modelled in the framework of set valued force laws developed in the field of non smooth mechanics The embedding of these constitutive models in the dynamics of mechanical systems gives rise to dynamical models with impulsive phenomena This book uses the mathematical framework of measure differential inclusions to formalise such models The book proceeds with the presentation of stability results for measure differential inclusions These stability results are then applied to nonlinear mechanical systems with unilateral constraints The book closes with the study of the convergence property for a class of measure differential inclusions a stability property for systems with time varying inputs which is shown to be highly instrumental in the context of the control of mechanical systems with unilateral constraints While the book presents a profound stability theory for mechanical systems with unilateral constraints it also has a tutorial value on the modelling of such systems in the framework of measure differential inclusions The work will be of interest to engineers scientists and students working in the field of non smooth mechanics and dynamics

Analysis and Simulation of Contact Problems Peter Wriggers, Udo Nackenhorst, 2006-08-15 Contact mechanics was and is an important branch in mechanics which covers a broad field of theoretical numerical and experimental investigations In this carefully edited book the reader will obtain a state of the art overview on formulation mathematical analysis and numerical solution procedures of contact problems The contributions collected in this volume summarize the lectures presented during the 4th Contact Mechanics International symposium CMIS

held in Hannover Germany 2005 by leading scientists in the area of contact mechanics Kinematics and Dynamics of Multibody Systems with Imperfect Joints Paulo Flores, Jorge Ambrósio, J.C. Pimenta Claro, Hamid M. Lankarani, 2008-01-10 This book presents suitable methodologies for the dynamic analysis of multibody mechanical systems with joints It contains studies and case studies of real and imperfect joints The book is intended for researchers engineers and graduate students in applied and computational mechanics **Mathematical Methods in Electro-Magneto-Elasticity** Demosthenis I. Bardzokas, Michael L. Filshtinsky, Leonid A. Filshtinsky, 2007-05-19 The mechanics of Coupled Fields is a discipline at the edge of modern research connecting Continuum Mechanics with Solid State Physics This book fills many gaps in the theoretical literature which arise due to the complexity of the problem A vast number of problems are considered so that the reader can get a clear quantitative and qualitative understanding of the phenomena taking place *Elastoplasticity Theory* Koichi Hashiguchi, 2009-05-02 Contents Recent advancements in the performance of industrial products and structures are quite intense Consequently mechanical design of high accuracy is necessary to enhance their mechanical performance strength and durability The basis for their mechanical design can be provided through elastoplastic deformation analyses For that reason industrial engineers in the fields of mechanical civil architectural aerospace engineering etc must learn pertinent knowledge relevant to elastoplasticity Numerous books about elastoplasticity have been published since Mathematical Theory of Plasticity the notable book of R Hill 1950 was written in the middle of the last century That and similar books mainly address conventional plasticity models on the premise that the interior of a yield surface is an elastic domain However conventional plasticity models are applicable to the prediction of monotonic loading behavior but are inapplicable to prediction of deformation behavior of machinery subjected to cyclic loading and civil or architectural structures subjected to earthquakes Elastoplasticity has developed to predict deformation behavior under cyclic loading and non proportional loading and to describe nonlocal finite and rate dependent deformation behavior *Boundary Element Analysis* Martin Schanz, Olaf Steinbach, 2007-04-29 This volume contains eleven contributions on boundary integral equation and boundary element methods Beside some historical and more analytical aspects in the formulation and analysis of boundary integral equations modern fast boundary element methods are also described and analyzed from a mathematical point of view In addition the book presents engineering and industrial applications that show the ability of boundary element methods to solve challenging problems from different fields **The Aerodynamics of Heavy Vehicles II: Trucks, Buses, and Trains** Fred Browand, Rose McCallen, James Ross, 2008-09-30 It is our pleasure to present these proceedings for The Aerodynamics of Heavy Vehicles II Trucks Buses and Trains International Conference held in Lake Tahoe California August 26-31 2007 by Engineering Conferences International ECI Brought together were the world's leading scientists and engineers from industry universities and research laboratories including truck and high speed train manufacturers and operators All were gathered to discuss computer simulation and experimental techniques to be applied for the design of the more efficient trucks buses and

high speed trains required in future years This was the second conference in the series The focus of the first conference in 2002 was the interplay between computations and experiment in minimizing aerodynamic drag The present proceedings from the 2007 conference address the development and application of advanced aerodynamic simulation and experimental methods for state of the art analysis and design as well as the development of new ideas and trends holding promise for the coming 10 year time span Also included are studies of heavy vehicle aerodynamic tractor and trailer add on vices studies of schemes to delay undesirable flow separation and studies of underhood thermal management

Uncertainty Assessment of Large Finite Element Systems Christian A. Schenk, Gerhart I. Schuëller, 2005-06-08 The treatment of uncertainties in the analysis of engineering structures remains one of the premium challenges in modern structural mechanics It is only in recent years that the developments in stochastic and deterministic computational mechanics began to be synchronized To foster these developments novel computational procedures for the uncertainty assessment of large finite element systems are presented in this monograph The stochastic input is modeled by the so called Karhunen Loève expansion which is formulated in this context both for scalar and vector stochastic processes as well as for random fields Particularly for strongly non linear structures and systems the direct Monte Carlo simulation technique has proven to be most advantageous as method of solution The capabilities of the developed procedures are demonstrated by showing some practical applications

Vibro-Impact Dynamics Raouf A. Ibrahim, 2009-05-12 Studies of vibro impact dynamics falls into three main categories modeling mapping and applications This text covers the latest in those studies plus selected deterministic and stochastic applications It includes a bibliography exceeding 1 100 references

Static and Dynamic Coupled Fields in Bodies with Piezoeffects or Polarization Gradient Jerzy Nowacki, 2010-04-12 The basic subject chosen for this book is directly associated with physics of piezoelectricity and some other electro magneto thermo elastic coupling phenomena in solids Fundamentals of physics of electromechanical interactions in dielectric bodies have been studied both theoretically and experimentally by a great number of researchers being reflected in multiple publications It will be worthwhile to start our reference list from the old books by P Curie 1 and W Voigt 2 the first discovered piezoelectricity experimentally 1880 and the second established its relation to the crystalline structure 1884 We shall not go to detailed history of this field of science One can find it in many more recent monographs devoted in part or totally to linear piezoelectricity 3 9 to its nonlinear aspects 10 14 and to linear electromechanical coupling arising due to more delicate physical reasons and existing even in centrosymmetric media 15 16 The book is related to series of theoretical studies of electro elastic fields in solids with piezoelectric coupling or polarization gradient

Challenges and Innovations in Geomechanics Marco Barla, Alice Di Donna, Donatella Sterpi, 2021-01-14 This book gathers the latest advances innovations and applications in the field of computational geomechanics as presented by international researchers and engineers at the 16th International Conference of the International Association for Computer Methods and Advances in Geomechanics IACMAG 2020 21 Contributions include a wide range of topics in geomechanics

such as monitoring and remote sensing multiphase modelling reliability and risk analysis surface structures deep structures dams and earth structures coastal engineering mining engineering earthquake and dynamics soil atmosphere interaction ice mechanics landfills and waste disposal gas and petroleum engineering geothermal energy offshore technology energy geostructures geomechanical numerical models and computational rail geotechnics Numerical Methods for Nonsmooth Dynamical Systems Vincent Acary, Bernard Brogliato, 2008-01-30 This book concerns the numerical simulation of dynamical systems whose trajectories may not be differentiable everywhere They are named nonsmooth dynamical systems They make an important class of systems first because of the many applications in which nonsmooth models are useful secondly because they give rise to new problems in various fields of science Usually nonsmooth dynamical systems are represented as differential inclusions complementarity systems evolution variational inequalities each of these classes itself being split into several subclasses The book is divided into four parts the first three parts being sketched in Fig 0 1 The aim of the first part is to present the main tools from mechanics and applied mathematics which are necessary to understand how nonsmooth dynamical systems may be numerically simulated in a reliable way Many examples illustrate the theoretical results and an emphasis is put on mechanical systems as well as on electrical circuits the so called Filippov's systems are also examined in some detail due to their importance in control applications The second and third parts are dedicated to a detailed presentation of the numerical schemes A fourth part is devoted to the presentation of the software platform Siconos This book is not a textbook on numerical analysis of nonsmooth systems in the sense that despite the main results of numerical analysis convergence order of consistency etc being presented their proofs are not provided *Handbook on Tunnels and Underground Works* Emilio Bilotta, Renato Casale, Claudio Giulio di Prisco, Salvatore Miliziano, Daniele Peila, Andrea Pigorini, Enrico Maria Pizzarotti, 2022-02-23 The book provides a new global updated thorough clear and practical risk based approach to tunnelling design and construction methods and discusses detailed examples of solutions applied to relevant case histories It is organized in three sequential and integrated volumes Volume 1 Concept Basic Principles of Design Volume 2 Construction Methods Equipment Tools and Materials Volume 3 Case Histories and Best Practices The book covers all aspects of tunnelling giving useful and practical information about design Volume 1 construction Volume 2 and best practices Volume 3 It provides the following features and benefits updated vision on tunnelling design tools materials and construction balanced mix of theory technology and applied experience different and harmonized points of view from academics professionals and contractors easy consultation in the form of a handbook risk oriented approach to tunnelling problems The tunnelling industry is amazingly widespread and increasingly important all over the world particularly in developing countries The possible audience of the book are engineers geologists designers constructors providers contractors public and private customers and in general technicians involved in the tunnelling and underground works industry It is also a suitable source of information for industry professionals senior undergraduate and graduate students researchers and academics

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 *Dam-break Problems, Solutions and Case Studies* D. De Wrachien, 2009 The aim of the book is to give an up to date review on dam break problems along with the main theoretical background and the practical aspects involved in dam failures design of flood defense structures prevention measures and the environmental social economic and forensic aspects related to the topic Moreover an exhaustive range of laboratory tests and modeling techniques is explored to deal effectively with shock waves and other disasters caused by dam failures Disaster management refers to programs and strategies designed to prevent mitigate prepare for respond to and recover from the effects of these phenomena To manage and minimize these risks it is necessary to identify hazards and vulnerability by means of a deep knowledge of the causes which drive to dam failures and to understand the flow propagation process Knowledge and advanced scientific tools play a role of paramount importance of coping with flooding and other dam break problems along with capacity building in the context of political and administrative frameworks All these aspects are featured in the book which is a comprehensive treaty that covers the most theoretical and advanced aspects of structural and hydraulic engineering together with the hazard assessment and mitigation measures and the social economic and forensic aspects related to subject

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