Kolumban Hutter
Klaus Jöhnk

Continuum Methods of Physical Modeling

CONTINUUM MECHANICS
DIMENSIONAL ANALYSIS
TURBULENCE

Continuum Methods Of Physical Modeling Continuum Mechanics Dimensional Analysis Turbulence

Clemens Wendtner

Continuum Methods Of Physical Modeling Continuum Mechanics Dimensional Analysis Turbulence:

Continuum Methods of Physical Modeling Kolumban Hutter,Klaus Jöhnk,2004-01-20 The authors give an introduction into continuum thermomechanics the methods of dimensional analysis and turbulence modeling All these themes belong today to the everyday working method of not only environmental physicists but equally also those engineers who are confronted with continuous systems of solid and fluid mechanics soil mechanics and generally the mechanics and thermodynamics of heterogeneous systems Here the reader finds a rigorous mathematical presentation of the material which is also seen as the foundation for environmentally related physics like oceanography limnology glaciology climate dynamics and other topics in geophysics Even though it is hoped that the book will also be used as a source book by researchers in the broad field of continuum physics its intention is essentially to form a basis for teaching for upper level students majoring in mechanics mathematics physics and the classical engineering sciences The intention is to equip the reader with the ability to understand the complex nonlinear modeling in material behaviour and turbulence closure as well as to derive or invent his own models **Principles of Continuum Mechanics** Zdeněk Martinec,2019-05-31 This book addresses the basic concepts of continuum mechanics that is the classical field theory of deformable bodies The theory is systematically developed from the kinematics to the balance equations the material theory and the entropy principles In turn the linear elastic solids the ideal liquid and the Newtonian liquid are presented in detail as concrete applications The book concludes by covering the theory of small motions in a medium with a finite prestress In general the emphasis is on presenting the content in a clear and straightforward way that requires only an elementary grasp of calculus linear algebra and Newtonian mechanics The book is intended for students of physics mechanics engineering and the geosciences as well as applied mathematics with a year or more of college calculus behind them **Lectures Notes on Advanced Structured Materials 2** Holm Altenbach,Leonhard Hitzler,Michael Johlitz,Markus Merkel,Andreas Öchsner,2024-03-19 The postgraduate seminar series on advanced structured materials is designed to facilitate teaching and informal discussion in a supportive and friendly environment The seminar provides a forum for postgraduate students to present their research results and train their presentation and discussion skills Furthermore it allows for extensive discussion of current research being conducted in the wider area of advanced structured materials Doing so it builds a wider postgraduate community and offers networking opportunities for early career researchers In addition to focused lectures the seminar provides specialized teaching overview lectures from experienced senior academics The 2023 Postgraduate Seminar entitled Advanced Structured Materials Development Manufacturing Characterization Applications was held from 20th till 24th February 2023 in Barcelona The presented postgraduate lectures had a strong focus on polymer mechanics composite materials and additive manufacturing

Advanced Computational Methods and Geomechanics Shenghong Chen,2023-01-01 The aim of this book is intended through parallel expounding to help readers comprehensively grasp the intrinsic features of typical advanced computational

methods These methods are created in recent three decades for the understanding of the post failure of geo materials accompanied with discontinuous and finite deformation dislocation as well as the violent fluid structure interaction accompanied with strong distortion of water surface The strong points and weak points of the formalisms for governing equations the discretization schemes the nodal interpolation approximation of field variables and their connectivity via support domains covers or enrichments the basic algorithms etc are clarified Being aware of that the differences in these methods are not so large as at the first glance this book will help readers to select appropriate methods to improve the methods for their specific purpose and to evaluate the reliability applicability of the outcomes in the hazard evaluation of geotechnical hydraulic structures beyond extreme work situation This book may be looked at as an advanced continuation of Computational Geomechanics and Hydraulic Structures by the author 2018 Springer Verlag ISBN 978 981 10 8134 7 which elaborates the fundamental computational methods in geomechanics for the routine design of geotechnical hydraulic engineering   *Computational Geotechnics* Thomas Nagel,Norbert Böttcher,Uwe-Jens Görke,Olaf Kolditz,2017-04-29 In this book effective computational methods to facilitate those pivotal simulations using open source software are introduced and discussed with a special focus on the coupled thermo mechanical behavior of the rock salt A cohesive coverage of applying geotechnical modeling to the subsurface storage of hydrogen produced from renewable energy sources is accompanied by specific reproducible example simulations to provide the reader with direct access to this fascinating and important field Energy carriers such as natural gas hydrogen oil and even compressed air can be stored in subsurface geological formations such as depleted oil or gas reservoirs aquifers and caverns in salt rock Many challenges have arisen in the design safety and environmental impact assessment of such systems not the least of which is that large scale experimentation is not a feasible option Therefore simulation techniques are central to the design and risk assessment of these and similar geotechnical facilities   **Mathematical Modeling** Christof Eck,Harald Garcke,Peter Knabner,2017-04-11 Mathematical models are the decisive tool to explain and predict phenomena in the natural and engineering sciences With this book readers will learn to derive mathematical models which help to understand real world phenomena At the same time a wealth of important examples for the abstract concepts treated in the curriculum of mathematics degrees are given An essential feature of this book is that mathematical structures are used as an ordering principle and not the fields of application Methods from linear algebra analysis and the theory of ordinary and partial differential equations are thoroughly introduced and applied in the modeling process Examples of applications in the fields electrical networks chemical reaction dynamics population dynamics fluid dynamics elasticity theory and crystal growth are treated comprehensively   **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 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   Scientific Computing in Electrical Engineering Giuseppe Nicosia,Vittorio Romano,2020-09-10 This collection of selected papers presented at the 12th International Conference on Scientific Computing in Electrical Engineering SCEE 2018 held in Taormina Sicily Italy in September 2018 showcases the state of the art in SCEE The aim of the SCEE 2018 conference was to bring together scientists from academia and industry mathematicians electrical engineers computer scientists and physicists and to promote intensive discussions on industrially relevant mathematical problems with an emphasis on the modeling and numerical simulation of electronic circuits and of electromagnetic fields This extensive reference work is divided into five parts Computational Electromagnetics Device Modeling and Simulation Circuit Simulation Mathematical and Computational Methods Model Order Reduction Each part starts with a general introduction followed by the respective contributions The book will appeal to mathematicians and electrical engineers Further it introduces algorithm and program developers to recent advances in the other fields while industry experts will be introduced to new programming tools and mathematical methods   **Fluid and Thermodynamics** Kolumban Hutter,Yongqi Wang,2016-07-18 In this book fluid mechanics and thermodynamics F T are approached as interwoven not disjoint fields The book starts by analyzing the creeping motion around spheres at rest Stokes flows the Oseen correction and the Lagerstrom Kaplun expansion theories are presented as is the homotopy analysis 3D creeping flows and rapid granular avalanches are treated in the context of the shallow flow approximation and it is demonstrated that uniqueness and stability deliver a natural transition to turbulence modeling at the zero first order closure level The difference quotient turbulence model DQTM closure scheme reveals the importance of the turbulent closure schemes non locality effects Thermodynamics is presented in the form of the first and second laws and irreversibility is expressed in terms of an entropy balance Explicit expressions for constitutive postulates are in conformity with the dissipation inequality Gas dynamics offer a first application of combined F T The book is rounded out by a chapter on dimensional analysis similitude and physical experiments   **Similarity and Modeling in Science and Engineering** Josef Kuneš,2012-04-07 The present text sets itself in relief to other titles on the subject in that it addresses the means and methodologies versus a narrow specific task oriented approach Concepts and their developments which evolved to meet the changing needs of applications are addressed This approach provides the reader with a general tool box to apply to their specific needs Two important tools are presented dimensional analysis and the similarity analysis methods The fundamental point of view enabling one to sort all models is that of information flux between a model and an original

expressed by the similarity and abstraction Each chapter includes original examples and applications In this respect the models can be divided into several groups The following models are dealt with separately by chapter mathematical and physical models physical analogues deterministic stochastic and cybernetic computer models The mathematical models are divided into asymptotic and phenomenological models The phenomenological models which can also be called experimental are usually the result of an experiment on an complex object or process The variable dimensionless quantities contain information about the real state of boundary conditions parameter non linearity changes and other factors With satisfactory measurement accuracy and experimental strategy such models are highly credible and can be used for example in control systems **Non-equilibrium Thermodynamics of Superfluid Helium and Quantum Turbulence** Maria Stella Mongiovì,David Jou,Michele Sciacca,2025-07-23 This book puts together non equilibrium thermodynamics heat transport properties of superfluid He II and thermodynamic and dynamic aspects of quantum turbulence A one fluid extended model of superfluid helium with heat flux as an additional independent variable is presented and compared with the two fluid model to explore how both models complement each other Important features arise in rotating situations and in superfluid turbulence characterized by quantized vortices leading to strong nonlinearities between heat flux and temperature gradient The dynamics of vortex lines and their interaction with heat dynamics a central topic in superfluid turbulence is dealt with by introducing the vortex line density as an independent variable and writing its dynamical equations considering the transitions from laminar to turbulent flows and from diffusive to ballistic regimes Classical and quantum turbulence are compared from a mesoscopic view and from their energy spectra The work also explores some parallelisms of quantum vortex thermodynamics with cosmic string thermodynamics and black hole thermodynamics exhibiting duality connections amongst them It emphasizes didactical views over specialistic details and may be used as an introduction to nonequilibrium thermodynamics of superfluid helium and its heat transport properties second sound nonlocal transport nonlinear connections with quantum turbulence The book is useful to researchers in superfluid helium in heat transport and in thermodynamics of cosmic strings and black holes The diversity and complexity of its several physical equations will be inspiring for researchers in mathematical physics **Simulation and Learning** Franco Landriscina,2013-03-14 The main idea of this book is that to comprehend the instructional potential of simulation and to design effective simulation based learning environments one has to consider both what happens inside the computer and inside the students minds The framework adopted to do this is model centered learning in which simulation is seen as particularly effective when learning requires a restructuring of the individual mental models of the students as in conceptual change Mental models are by themeselves simulations and thus simulation models can extend our biological capacity to carry out simulative reasoning For this reason recent approaches in cognitive science like embodied cognition and the extended mind hypothesis are also considered in the book A conceptual model called the epistemic simulation cycle is proposed as a blueprint for the

comprehension of the cognitive activies involved in simulation based learning and for instructional design **The State of Deformation in Earthlike Self-Gravitating Objects** Wolfgang H. Müller,Wolf Weiss,2016-04-30 This book presents an in depth continuum mechanics analysis of the deformation due to self gravitation in terrestrial objects such as the inner planets rocky moons and asteroids Following a brief history of the problem modern continuum mechanics tools are presented in order to derive the underlying field equations both for solid and fluid material models Various numerical solution techniques are discussed such as Runge Kutta integration series expansion finite differences and adaptive FE analysis Analytical solutions for selected special cases which are worked out in detail are also included All of these methods are then applied to the problem quantitative results are compared and the pros and cons of the analytical solutions and of all the numerical methods are discussed The book culminates in a multi layer model for planet Earth according to the PREM Model Preliminary Earth Model and in a viscoelastic analysis of the deformation problem all from the viewpoint of rational continuum theory and numerical analysis Monitoring and Modelling Lakes and Coastal Environments Pratap K. Mohanty,2008-10-30 Habitat environments of lakes and coastal wetlands are deteriorating due to their exploitative use and improper management eroding the biodiversity and undermining the productivity of these unique ecosystems This book examines ways to restore conserve and manage lakes and coastal wetlands It covers topics ranging from biodiversity to modeling and management and depicts case studies from different nations *Introduction to the Thermodynamically Constrained Averaging Theory for Porous Medium Systems* William G. Gray,Cass T. Miller,2014-02-19 Thermodynamically constrained averaging theory provides a consistent method for upscaling conservation and thermodynamic equations for application in the study of porous medium systems The method provides dynamic equations for phases interfaces and common curves that are closely based on insights from the entropy inequality All larger scale variables in the equations are explicitly defined in terms of their microscale precursors facilitating the determination of important parameters and macroscale state equations based on microscale experimental and computational analysis The method requires that all assumptions that lead to a particular equation form be explicitly indicated a restriction which is useful in ascertaining the range of applicability of a model as well as potential sources of error and opportunities to improve the analysis Advanced Theories for Deformation, Damage and Failure in Materials Holm Altenbach,Artur Ganczarski,2022-08-31 The book introduces advanced theories for deformation damage and failure in materials The overall continuum mechanical framework was marked out and added by creep and damage mechanics of materials at elevated temperatures The time dependent and time independent models of cyclic plasticity for low cycle and thermomechanical fatigue life assessment were specified in a very special manner instead of three dimensional statements only one dimensional rheological models were discussed Anisotropic plasticity during non proportional loading and anisotropy of yield failure criteria is more and more important in modern applications It is showing how the limit states of materials can be estimated In addition the damage and failure of

composite materials demonstrate the possibility to extend continuum mechanics to continuum damage mechanics of composite materials **Carbon Nanotube Enhanced Aerospace Composite Materials** A. Paipetis,V. Kostopoulos,2012-09-14 The well documented increase in the use of high performance composites as structural materials in aerospace components is continuously raising the demands in terms of dynamic performance structural integrity reliable life monitoring systems and adaptive actuating abilities Current technologies address the above issues separately material property tailoring and custom design practices aim to the enhancement of dynamic and damage tolerance characteristics whereas life monitoring and actuation is performed with embedded sensors that may be detrimental to the structural integrity of the component This publication explores the unique properties of carbon nanotubes CNT as an additive in the matrix of Fibre Reinforced Plastics FRP for producing structural composites with improved mechanical performance as well as sensing actuating capabilities The successful combination of the CNT properties and existing sensing actuating technologies leads to the realization of a multifunctional FRP structure The current volume presents the state of the art research in this field The contributions cover all the aspects of the novel composite systems i e modeling from nano to macro scale enhancement of structural efficiency dispersion and manufacturing integral health monitoring abilities Raman monitoring as well as the capabilities that ordered carbon nanotube arrays offer in terms of sensing and or actuating in aerospace composites **Non-Hydrostatic Free Surface Flows** Oscar Castro-Orgaz,Willi H. Hager,2017-03-27 This book provides essential information on the higher mathematical level of approximation over the gradually varied flow theory also referred to as the Boussinesq type theory In this context it presents higher order flow equations together with their applications in a broad range of pertinent engineering and environmental problems including open channel groundwater and granular material flows Finite element simulation of dislocation based plasticity and diffusion in multiphase materials at high temperature Albiez, Jürgen,2019-05-22 A single crystal plasticity model as well as a gradient crystal plasticity model are used to describe the creep behavior of directionally solidi ed NiAl based eutectic alloys To consider the transition from theoretical to bulk strength a hardening model was introduced to describe the strength of the reinforcing phases Moreover to account for microstructural changes due to material ux a coupled diffusional mechanical simulation model was introduced

Ecological Informatics Friedrich Recknagel,William K. Michener,2017-09-21 This book introduces readers to ecological informatics as an emerging discipline that takes into account the data intensive nature of ecology the valuable information to be found in ecological data and the need to communicate results and inform decisions including those related to research conservation and resource management At its core ecological informatics combines developments in information technology and ecological theory with applications that facilitate ecological research and the dissemination of results to scientists and the public Its conceptual framework links ecological entities genomes organisms populations communities ecosystems landscapes with data management analysis and synthesis and communicates new findings to inform decisions by following

the course of a loop In comparison to the 2nd edition published in 2006 the 3rd edition of Ecological Informatics has been completely restructured on the basis of the generic conceptual f ramework provided in Figure 1 It reflects the significant advances in data management analysis and synthesis that have been made over the past 10 years including new remote and in situ sensing techniques the emergence of ecological and environmental observatories novel evolutionary computations for knowledge discovery and forecasting and new approaches to communicating results and informing decisions

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