

Mechanics of Porous Continua



Oliver Conley

Mechanics Of Porous Continua

J.L. Auriault, C. Geindreau, P. Royer, J.F. Bloch

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Mechanics of Porous Continua Olivier Coussy, 1995-12-05 This book provides a unified and systematic continuum approach for engineers and applied physicists working on the modelling of porous media. Self-contained, it sets out from a macroscopic point of view the main concepts and results of deformable porous media subject to the flow of one or several fluids. The theory presented includes developments in the areas of thermodynamics, poroelastoplasticity, poroviscoplasticity, wave propagation and surfaces of discontinuity, boundary value problems and numerical methods as well as chemico-mechanical couplings. It can be used for numerous diversified applications in geophysics, civil engineering, biomechanics, material science etc.

Mechanics and Physics of Porous Solids Olivier Coussy, 2011-06-28 *Mechanics and Physics of Porous Solids* addresses the mechanics and physics of deformable porous materials whose porous space is filled by one or several fluid mixtures interacting with the solid matrix. Coussy uses the language of thermodynamics to frame the discussion of this topic and bridge the gap between physicists and engineers and organises the material in such a way that individual phases are explored followed by coupled problems of increasing complexity. This structure allows the reader to build a solid understanding of the physical processes occurring in the fluids and then porous solids. *Mechanics and Physics of Porous Solids* offers a critical reference on the physics of multiphase porous materials, key reading for engineers and researchers in structural and material engineering, concrete, wood and materials science, rock and soil mechanics, mining and oil prospecting, biomechanics.

Poromechanics Olivier Coussy, 2004-03-05 Modelling and predicting how porous media deform when subjected to external actions and physical phenomena including the effect of saturating fluids are of importance to the understanding of geophysics and civil engineering including soil and rock mechanics and petroleum engineering as well as in newer areas such as biomechanics and agricultural engineering. Starting from the highly successful First Edition, Coussy has completely re-written *Mechanics of Porous Continua* to include new material for partially saturated porous media, reactive porous media, macroscopic electrical effects. A single theoretical framework to the subject to explain the interdisciplinary nature of the subject. Exercises at the end of each chapter to aid understanding. The unified approach taken by this text makes it a valuable addition to the bookshelf of every PhD student and researcher in civil engineering, petroleum engineering, geophysics, biomechanics and material science.

Poromechanics J.F. Thimus, et al, 2020-12-17 This text features 105 papers dealing with the fundamentals and the applications of poromechanics from the Biot conference of 1998 held in Louvain-la-Neuve. Topics include wave propagation, numerical modelling, identification of poromechanical parameters and constitutive modelling.

Poromechanics II J.L. Auriault, C. Geindreau, P. Royer, J.F. Bloch, 2020-12-17 These proceedings deal with the fundamentals and applications of poromechanics to geomechanics, material sciences, geophysics, acoustics and biomechanics. They discuss the state of the art in such topics as constitutive modelling and upscaling methods.

Poromechanics IV Hoe I. Ling, Andrew Smyth, Raimondo Betti, 2009-01-13 Based on the Biot conference named after

Maurice Biot and held at Columbia University this book contains over 170 original papers on different phases of poromechanics in many materials from soils and minerals to human bone It covers testing and modeling *Advances in Geotechnical Engineering* R. J. Jardine, D. M. Potts, K. G. Higgins, 2004 This two volume set presenting the proceedings of the Skempton Memorial Conference on Advances in Geotechnical Engineering held at the Royal Geographical Society London on 29-31 March 2004 With the conference's commemorative theme the first volume reprints the Royal Society of London's short biographical memoir on the late Professor Sir Alec Skempton and offers a set of invited articles that reflect on his contributions to engineering geology slope stability and the history of civil engineering **Engineering Structures Under Extreme**

Conditions Adnan Ibrahimbegović, Boštjan Brank, 2005 Emerging Technologies in NDT D. van Hemelrijck, A. Anastassopoulos, T. Philippidis, 2022-01-26 This volume contains the papers presented at the 2nd International Conference entitled Emerging Technologies in NDT which was held in Athens Greece May 24-26 1999 This work covers frequently used non destructive testing methods and introduces innovative ideas in the field The title also focuses on visual and optical inspection acoustic emission and ultrasonics as well as a range of other closely related topics More than 50 papers were presented at the conference by invited and distinguished researchers from all over the world This volume forms a valuable record of important contributions to the relevant literature It contains not only the most up to date technology developments but provides also information regarding emerging NDT techniques technologies and their potential applications in the field The book covers frequently used NDT methods and introduces new and innovative ideas Focussing on visual and optical inspection acoustic emission ultrasonics nonlinear ultrasonics infrared methods X ray radiography special techniques material characterisation NDT of civil engineering structures inspection of pipes and reliability and validation this volume will be a great boon to engineers researchers quality control managers as well as teachers and graduate students in the field

Hydromechanical and Thermohydromechanical Behaviour of Deep Argillaceous Rock : Theory and Experiments N. Hoteit, J.F. Shao, K. Su, M. Tijani, 2002-01-01 These papers address state of the art knowledge of thermo hydro mechanical behaviours of deep argillaceous rocks They introduce achievements in laboratory test methods for determining the coupling parameters of deep argillaceous rocks amongst other things Shell Structures, Theory and Applications Wojciech Pietraszkiewicz, Czesław Szymczak, 2005-09-22 Shells are basic structural elements of modern technology Examples of shell structures include automobile bodies domes water and oil tanks pipelines ship hulls aircraft fuselages turbine blades loudspeaker cones but also balloons parachutes biological membranes a human skin a bottle of wine or a beer can This volume contains full texts of over 100 papers presented by specialists from over 20 countries at the 8th Conference Shell Structures Theory and Applications 12-14 October 2005 in Jurata Poland The aim of the meeting was to bring together scientists designers engineers and other specialists in shell structures in order to discuss important results and new ideas in this field The goal is to pursue more accurate theoretical models to develop more powerful and versatile

methods of analysis and to disseminate expertise in design and maintenance of shell structures Among the authors there are many distinguished specialists of shell structures including the authors of general lectures I V Andrianov Ukraine V A Eremeyev Russia A Ibrahimbegovic France P Klosowski Poland B H Kr plin Germany E Ramm Germany J M Rotter UK and D Steigmann USA The subject area of the papers covers various theoretical models and numerical analyses of strength dynamics stability optimization etc of different types of shell structures their design and maintenance as well as modelling of some surface related mechanical phenomena

Constitutive Modeling of Soils and Rocks Pierre-Yves Hicher,Jian-Fu Shao,2013-03-01 This title provides a comprehensive overview of elastoplasticity relating to soil and rocks Following a general outline of the models of behavior and their internal structure each chapter develops a different area of this subject relating to the author s particular expertise The first half of the book concentrates on the elastoplasticity of soft soils and rocks while the second half examines that of hard soils and rocks

Advances in Cardiac Signal Processing U. Rajendra Acharya,2007-04-25 This book provides a comprehensive review of progress in the acquisition and extraction of electrocardiogram signals The coverage is extensive from a review of filtering techniques to measurement of heart rate variability to aortic pressure measurement to strategies for assessing contractile effort of the left ventricle and more The book concludes by assessing the future of cardiac signal processing leading to next generation research which directly impact cardiac health care

Understanding the Tensile Properties of Concrete Jaap Weerheijm,2013-07-31 The response of concrete under tensile loading is crucial for most applications because concrete is much weaker in tension than in compression Understanding the response mechanisms of concrete under tensile conditions is therefore key to understanding and using concrete in structural applications Understanding the tensile properties of concrete summarises key recent research in this important subject After an introduction to concrete the book is divided into two parts part one on static response and part two on dynamic response Part one starts with a summary chapter on the most important parameters that affect the tensile response of concrete Chapters show how multi scale modelling is used to relate concrete composition to tensile properties Part two focuses on dynamic response and starts with an introduction to the different regimes of dynamic loading ranging from the low frequency loading by wind or earthquakes up to the extreme dynamic conditions due to explosions and ballistic impacts Following chapters review dynamic testing techniques and devices that deal with the various regimes of dynamic loading Later chapters highlight the dynamic behaviour of concrete from different viewpoints and the book ends with a chapter on practical examples of how detailed knowledge on tensile properties is used by engineers in structural applications Drawing on the work of some of the leading experts in the field Understanding the tensile properties of concrete is a valuable reference for civil and structural engineers as well as those researching this important material Summarises key recent research in the areas of understanding the response mechanisms of concrete under tensile conditions Provides a summary of the most important parameters that affect the tensile response of concrete and shows how multi scale

modeling is used to relate concrete composition to tensile properties Highlights the dynamic behaviour of concrete from different viewpoints and provides practical examples of how detailed knowledge on tensile properties is used by engineers in structural applications **Computer Methods and Advances in Geomechanics** Chandra S. Desai,2001 **Magnetic Hybrid-Materials** Stefan Odenbach,2021-10-25 Externally tunable properties allow for new applications of magnetic hybrid materials containing magnetic micro and nanoparticles in sensors and actuators in technical and medical applications By means of easy to generate and control magnetic fields changes of the internal particle arrangements and the macroscopic properties can be achieved This monograph delivers the latest insights into multi scale modelling experimental characterization manufacturing and application of those magnetic hybrid materials **The Second Half Century of Rock Mechanics, Three Volume Set** Luis Ribeiro e Sousa,Claudio Olalla,N. Grossmann,2007-08-05 Forty one years ago the International Society for Rock Mechanics ISRM held its 1st International Congress in Lisbon Portugal In July 2007 the 11th ISRM Congress returned to Lisbon where the Portuguese Geotechnical Society SPG the Portuguese National Group of the ISRM hosted the meeting The Second Half Century of Rock Mechanics comprises *Environmental Geomechanics* Laurent Vulliet,Lyesse Laloui,Bernard Schrefler,2002-01-01 **Continuum Thermodynamics - Part I** Krzysztof Wilmanski,2008 This book is a unique presentation of thermodynamic methods of construction of continuous models It is based on a uniform approach following from the entropy inequality and using Lagrange multipliers as auxiliary quantities in its evaluation It covers a wide range of models OCo ideal gases thermoviscoelastic fluids thermoelastic and thermoviscoelastic solids plastic polycrystals miscible and immiscible mixtures and many others The structure of phenomenological thermodynamics is justified by a systematic derivation from the Liouville equation through the BBGKY hierarchy derived Boltzmann equation to an extended thermodynamics In order to simplify the reading an extensive introduction to classical continuum mechanics and thermostatics is included As a complementary volume to Part II which will contain applications and examples and to Part III which will cover numerical methods only a few simple examples are presented in this first Part One exception is an extensive example of a linear poroelastic material because it will not appear in future Parts The book is the first presentation of continuum thermodynamics in which foundations of continuum mechanics microscopic foundations and transition to extended thermodynamics applications of extended thermodynamics beyond ideal gases and thermodynamic foundations of various material theories are exposed in a uniform and rational way The book may serve both as a support for advanced courses as well as a desk reference Continuum Thermodynamics Wilmanski,2008 This book is a unique presentation of thermodynamic methods of construction of continuous models It is based on a uniform approach following from the entropy inequality and using Lagrange multipliers as auxiliary quantities in its evaluation It covers a wide range of models ideal gases thermoviscoelastic fluids thermoelastic and thermoviscoelastic solids plastic polycrystals miscible and immiscible mixtures and many others The structure of phenomenological thermodynamics is justified by a systematic derivation from the Liouville

equation through the BBGKY hierarchy derived Boltzmann equation to an extended thermodynamics In order to simplify the reading an extensive introduction to classical continuum mechanics and thermostatics is included As a complementary volume to Part II which will contain applications and examples and to Part III which will cover numerical methods only a few simple examples are presented in this first Part One exception is an extensive example of a linear poroelastic material because it will not appear in future Parts The book is the first presentation of continuum thermodynamics in which foundations of continuum mechanics microscopic foundations and transition to extended thermodynamics applications of extended thermodynamics beyond ideal gases and thermodynamic foundations of various material theories are exposed in a uniform and rational way The book may serve both as a support for advanced courses as well as a desk reference

Enjoying the Melody of Expression: An Mental Symphony within **Mechanics Of Porous Continua**

In a world consumed by displays and the ceaseless chatter of immediate connection, the melodic splendor and mental symphony developed by the prepared word usually fade into the background, eclipsed by the relentless sound and disruptions that permeate our lives. But, located within the pages of **Mechanics Of Porous Continua** a charming literary value overflowing with organic emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that captivating masterpiece conducts viewers on a psychological trip, skillfully unraveling the hidden melodies and profound impact resonating within each carefully crafted phrase. Within the depths with this touching assessment, we will explore the book is main harmonies, analyze its enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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