

SOLID MECHANICS AND ITS APPLICATIONS

A.P.S. Selvadurai (Ed.)

Mechanics of Poroelastic Media



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Mechanics Of Poroelastic Media

Alexander H.-D. Cheng



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Selvadurai, 1996-01-31 In *Mechanics of Poroelastic Media* the classical theory of poroelasticity developed by Biot is developed and extended to the study of problems in geomechanics biomechanics environmental mechanics and materials science The contributions are grouped into sections covering constitutive modelling analytical aspects numerical modelling and applications to problems The applications of the classical theory of poroelasticity to a wider class of problems will be of particular interest The text is a standard reference for researchers interested in developing mathematical models of poroelasticity in geoenvironmental mechanics and in the application of advanced theories of poroelastic biomaterials to the mechanics of biomaterials

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

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 II J.L. Auriault, C. Geindreau, P. Royer, J.F. Bloch, 2020-12-18 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

Rock

Mechanics and Engineering Volume 1 Xia-Ting Feng, 2017-03-16 *Principles* is the first volume of the five volume set *Rock Mechanics and Engineering* and contains twenty four chapters from key experts in the following fields Discontinuities

Anisotropy Rock Stress Geophysics Strength Criteria Modeling Rock Deformation and Failure The five volume set Comprehensive Rock Engineering which was published in 1993 has had an important influence on the development of rock mechanics and rock engineering Significant and extensive advances and achievements in these fields over the last 20 years now justify the publishing of a comparable new compilation Rock Mechanics and Engineering represents a highly prestigious multi volume work edited by Professor Xia Ting Feng with the editorial advice of Professor John A Hudson This new compilation offers an extremely wideranging and comprehensive overview of the state of the art in rock mechanics and rock engineering and is composed of peer reviewed dedicated contributions by all the key experts worldwide Key features of this set are that it provides a systematic global summary of new developments in rock mechanics and rock engineering practices as well as looking ahead to future developments in the fields Contributors are worldrenowned experts in the fields of rock mechanics and rock engineering though younger talented researchers have also been included The individual volumes cover an extremely wide array of topics grouped under five overarching themes Principles Vol 1 Laboratory and Field Testing Vol 2 Analysis Modelling and Design Vol 3 Excavation Support and Monitoring Vol 4 and Surface and Underground Projects Vol 5 This multi volume work sets a new standard for rock mechanics and engineering compendia and will be the go to resource for all engineering professionals and academics involved in rock mechanics and engineering for years to come

Poroelasticity Alexander H.-D. Cheng, 2016-04-20 This book treats the mechanics of porous materials infiltrated with a fluid poromechanics focussing on its linear theory poroelasticity Porous materials from inanimate bodies such as sand soil and rock living bodies such as plant tissue animal flesh or man made materials can look very different due to their different origins but as readers will see the underlying physical principles governing their mechanical behaviors can be the same making this work relevant not only to engineers but also to scientists across other scientific disciplines Readers will find discussions of physical phenomena including soil consolidation land subsidence slope stability borehole failure hydraulic fracturing water wave and seabed interaction earthquake aftershock fluid injection induced seismicity and heat induced pore pressure spalling as well as discussions of seismoelectric and seismoelectromagnetic effects The work also explores the biomechanics of cartilage bone and blood vessels Chapters present theory using an intuitive phenomenological approach at the bulk continuum level and a thermodynamics based variational energy approach at the micromechanical level The physical mechanisms covered extend from the quasi static theory of poroelasticity to poroelastodynamics poroviscoelasticity porothermoelasticity and porochemoelasticity Closed form analytical solutions are derived in details This book provides an excellent introduction to linear poroelasticity and is especially relevant to those involved in civil engineering petroleum and reservoir engineering rock mechanics hydrology geophysics and biomechanics Mechanics of Jointed and Faulted Rock H.P. Rossmanith, 2018-04-27 Topics covered in this text include geology and structural geology mechanics dynamics of jointed and faulted rock physical modelling and testing constitutive modelling seismicity and tectonics instrumentation

hydraulics and applications **Current Developments in Solid Mechanics and Their Applications** Holm

Altenbach,2025-07-07 This book is a collection of articles by eminent scientists from different countries who participated in the traditional international conference Topical Problems of Continuum Mechanics held at the Institute of Mechanics of the National Academy of Sciences of Armenia since 2007 The topics of the articles Coupled Fields in Solids Composites Soil Mechanics Fluid Mechanics Mechanics of Nano Systems Structural Mechanics Biomechanics Hydraulics and Hydraulic Facilities Experimental Mechanics **Poromechanics III - Biot Centennial (1905-2005)** Younane N.

Abousleiman,Alexander H.-D. Cheung,Franz-Josef Ulm,2005-05-01 These proceedings represent the latest advances in the mechanics of porous materials known as poromechanics The porous materials considered are solids containing voids that are impregnated with fluid The focus is on the mechanical interactions of the inhomogeneous solid with the single or multi phase fluid under the loading of mechanical force fluid pressure thermal chemical and magnetic fields The response time can be in static diffusional and dynamic ranges The length scale can start from nano to micro macro and up to field scales Its application covers many branches of science and engineering including geophysics geomechanics composite materials biomechanics acoustics seismicity civil mechanical environmental and petroleum engineering The approaches taken include analytical computational and experimental To honor the pioneering contributions of Maurice A Biot 1905 1985 to poromechanics the Biot Conference on Poromechanics was convened for the first time in Louvain la Neuve Belgium in 1998 The success of the first conference led to the 2nd Biot Conference held in Grenoble France in 2002 To celebrate the centennial birthday of Biot May 25 2005 the 3rd Biot Conference on Poromechanics was held at the University of Oklahoma Norman Oklahoma U S A on May 24 27 2005 Analytical Methods in Petroleum Upstream Applications Cesar Ovalles,Carl

E. Rechsteiner Jr.,2015-04-02 Effective measurement of the composition and properties of petroleum is essential for its exploration production and refining however new technologies and methodologies are not adequately documented in much of the current literature Analytical Methods in Petroleum Upstream Applications explores advances in the analytical methods and instrumentation that allow more accurate determination of the components classes of compounds properties and features of petroleum and its fractions Recognized experts explore a host of topics including A petroleum molecular composition continuity model as a context for other analytical measurements A modern modular sampling system for use in the lab or the process area to collect and control samples for subsequent analysis The importance of oil in water measurements and monitoring The chemical and physical properties of heavy oils their fractions and products from their upgrading Analytical measurements using gas chromatography and nuclear magnetic resonance NMR applications Asphaltene and heavy ends analysis Chemometrics and modeling approaches for understanding petroleum composition and properties to improve upstream midstream and downstream operations Due to the renaissance of gas and oil production in North America interest has grown in analytical methods for a wide range of applications The understanding provided in this

text is designed to help chemists geologists and chemical and petroleum engineers make more accurate estimates of the crude value to specific refinery configurations providing insight into optimum development and extraction schemes

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 Poromechanics 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 Advances in Applied Mechanics, 2016-10-20 Advances in Applied Mechanics draws together recent significant advances in various topics in applied mechanics Published since 1948 the book aims to provide authoritative review articles on topics in the mechanical sciences While the book is ideal for scientists and engineers working in various branches of mechanics it is also beneficial to professionals who use the results of investigations in mechanics in various applications such as aerospace chemical civil environmental mechanical and nuclear engineering Includes contributions from world leading experts that are acquired by invitation only Beneficial to scientists engineers and professionals who use the results of investigations in mechanics in various applications such as aerospace chemical civil environmental mechanical and nuclear engineering Covers not only traditional topics but also important emerging fields

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 **Computational Mechanics** S. Valliappan, N. Khalili, 2001 These Proceedings contain the papers presented at the 1st Asian Pacific Congress on Computational Mechanics held in Sydney on 20 23 November 2001 The theme of the first Congress of the Asian Pacific Association for Computational Mechanics in the new millennium is New Frontiers for the New Millennium The papers cover such new frontiers as micromechanics contact mechanics environmental geomechanics chemo thermo mechanics inverse techniques homogenization meshless methods smart materials smart structures and graphic visualization besides the general topics related to the application of finite element and boundary element methods in structural mechanics fluid mechanics geomechanics and biomechanics Current Trends and Open Problems in Computational Mechanics Fadi Aldakheel, Blaž Hudobivnik, Meisam Soleimani, Henning Wessels, Christian Weißenfels, Michele

Marino,2022-03-12 This Festschrift is dedicated to Professor Dr Ing habil Peter Wriggers on the occasion of his 70th birthday Thanks to his high dedication to research over the years Peter Wriggers has built an international network with renowned experts in the field of computational mechanics This is proven by the large number of contributions from friends and collaborators as well as former PhD students from all over the world The diversity of Peter Wriggers network is mirrored by the range of topics that are covered by this book To name only a few these include contact mechanics finite virtual element technologies micromechanics multiscale approaches fracture mechanics isogeometric analysis stochastic methods meshfree and particle methods Applications of numerical simulation to specific problems e g Biomechanics and Additive Manufacturing is also covered The volume intends to present an overview of the state of the art and current trends in computational mechanics for academia and industry

Analytic Methods in Geomechanics Kam-tim Chau,2018-10-08 A multidisciplinary field encompassing both geophysics and civil engineering geomechanics deals with the deformation and failure process in geomaterials such as soil and rock Although powerful numerical tools have been developed analytical solutions still play an important role in solving practical problems in this area Analytic Methods in Geomechanics provides a much needed text on mathematical theory in geomechanics beneficial for readers of varied backgrounds entering this field Written for scientists and engineers who have had some exposure to engineering mathematics and strength of materials the text covers major topics in tensor analysis 2 D elasticity and 3 D elasticity plasticity fracture mechanics and viscoelasticity It also discusses the use of displacement functions in poroelasticity the basics of wave propagations and dynamics that are relevant to the modeling of geomaterials The book presents both the fundamentals and more advanced content for understanding the latest research results and applying them to practical problems in geomechanics The author gives concise explanations of each subject area using a step by step process with many worked examples He strikes a balance between breadth of material and depth of details and includes recommended reading in each chapter for readers who would like additional technical information This text is suitable for students at both undergraduate and graduate levels as well as for professionals and researchers

Applied Mechanics Reviews ,2001 **Computer Methods and Advances in Geomechanics** Chandra S. Desai,2001 **Fundamentals of Discrete Element Methods for Rock Engineering: Theory and Applications** Lanru Jing,Ove Stephansson,2007-07-18 This book presents some fundamental concepts behind the basic theories and tools of discrete element methods DEM its historical development and its wide scope of applications in geology geophysics and rock engineering Unlike almost all books available on the general subject of DEM this book includes coverage of both explicit and implicit DEM approaches namely the Distinct Element Methods and Discontinuous Deformation Analysis DDA for both rigid and deformable blocks and particle systems and also the Discrete Fracture Network DFN approach for fluid flow and solute transport simulations The latter is actually also a discrete approach of importance for rock mechanics and rock engineering In addition brief introductions to some alternative approaches are also provided such as percolation theory and Cosserat

micromechanics equivalence to particle systems which often appear hand in hand with the DEM in the literature
Fundamentals of the particle mechanics approach using DEM for granular media is also presented Presents the fundamental concepts of the discrete models for fractured rocks including constitutive models of rock fractures and rock masses for stress deformation and fluid flow Provides a comprehensive presentation on discrete element methods including distinct elements discontinuous deformation analysis discrete fracture networks particle mechanics and Cosserat representation of granular media Features constitutive models of rock fractures and fracture system characterization methods detailing their significant impacts on the performance and uncertainty of the DEM models

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