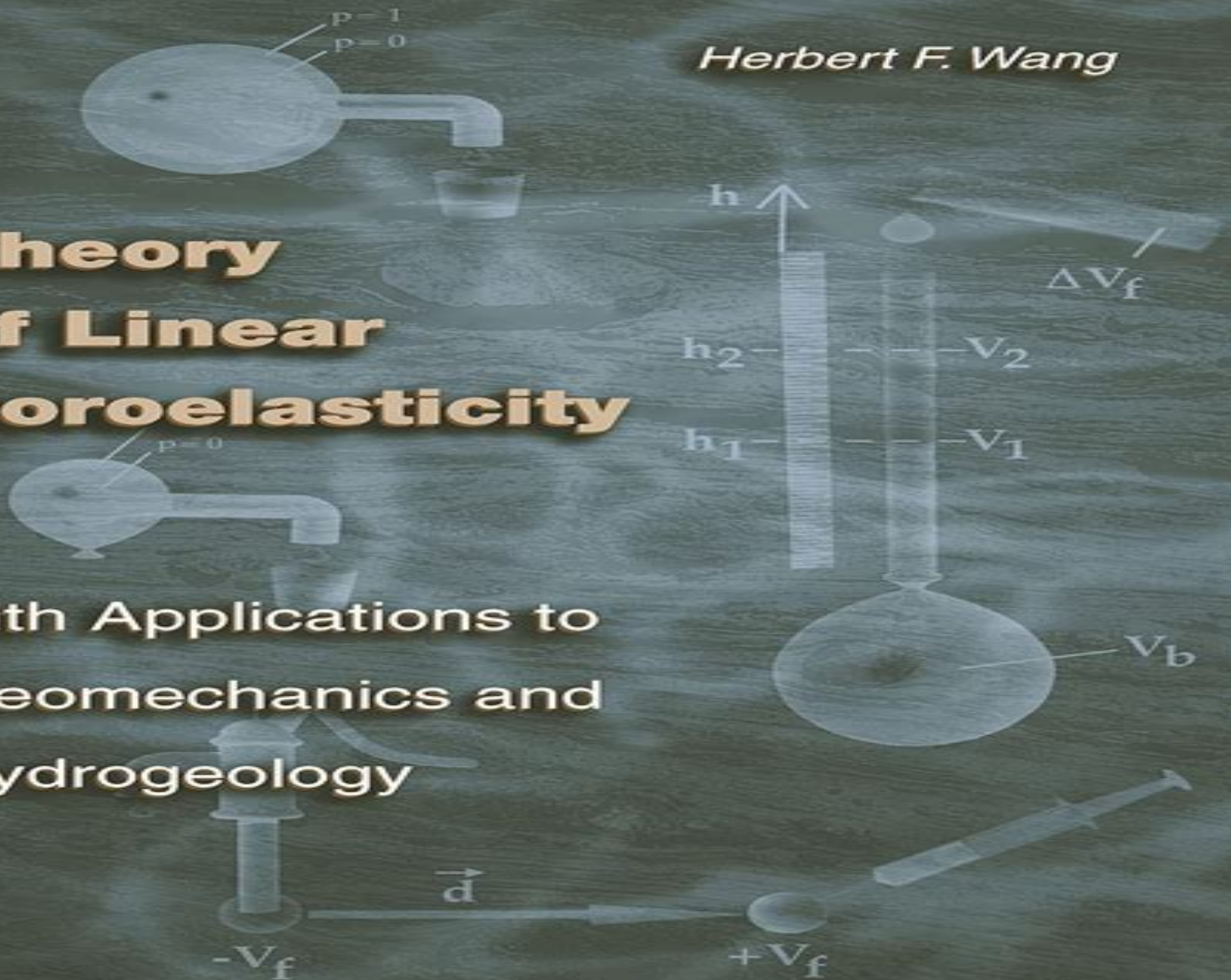


Herbert F. Wang

Theory of Linear Poroeleasticity

with Applications to
Geomechanics and
Hydrogeology



Theory Of Linear Poroelasticity With Applications To Geomechanics And Hydrogeology

Merab Svanadze



Theory Of Linear Poroelasticity With Applications To Geomechanics And Hydrogeology:

Theory of Linear Poroelasticity with Applications to Geomechanics and Hydrogeology Herbert F. Wang, 2017-02-15 The theory of linear poroelasticity describes the interaction between mechanical effects and adding or removing fluid from rock. It is critical to the study of such geological phenomena as earthquakes and landslides and is important for numerous engineering projects including dams, groundwater withdrawal, and petroleum extraction. Now an advanced text synthesizes in one place with one notation numerous classical solutions and applications of this highly useful theory. The introductory chapter recounts parallel developments in geomechanics, hydrogeology, and reservoir engineering that are unified by the tenets of poroelasticity. Next, the theory's constitutive and governing equations and their associated material parameters are described. These equations are then specialized for different simplifying geometries: unbounded problem domains, uniaxial strain, plane strain, radial symmetry, and axisymmetry. Example problems from geomechanics, hydrogeology, and petroleum engineering are incorporated throughout to illustrate poroelastic behavior and solution methods for a wide variety of real world scenarios. The final chapter provides outlines for finite element and boundary element formulations of the field's governing equations. Whether read as a course of study or consulted as a reference by researchers and professionals, this volume's user-friendly presentation makes accessible one of geophysics' most important subjects and will do much to reduce poroelasticity's reputation as difficult to master.

Theory of Linear Poroelasticity with Applications to Geomechanics and Hydrogeology Herbert Wang, 2000 **A Method of Fundamental Solutions in Poroelasticity to Model the Stress Field in Geothermal Reservoirs** Matthias Albert Augustin, 2015-07-15

This monograph focuses on the numerical methods needed in the context of developing a reliable simulation tool to promote the use of renewable energy. One very promising source of energy is the heat stored in the Earth's crust, which is harnessed by so-called geothermal facilities. Scientists from fields like geology, geo-engineering, geophysics, and especially geomathematics are called upon to help make geothermics a reliable and safe energy production method. One of the challenges they face involves modeling the mechanical stresses at work in a reservoir. The aim of this thesis is to develop a numerical solution scheme by means of which the fluid pressure and rock stresses in a geothermal reservoir can be determined prior to well drilling and during production. For this purpose, the method should i) include poroelastic effects, ii) provide a means of including thermoelastic effects, iii) be inexpensive in terms of memory and computational power, and iv) be flexible with regard to the locations of data points. After introducing the basic equations and their relations to more familiar ones (the heat equation, Stokes equations, Cauchy-Navier equation), the method of fundamental solutions and its potential value concerning our task are discussed. Based on the properties of the fundamental solutions, theoretical results are established, and numerical examples of stress field simulations are presented to assess the method's performance. The first ever 3D graphics calculated for these topics, which neither require meshing of the domain nor involving a time-stepping scheme, make this a pioneering volume.

Mechanics of Fluid-Saturated Rocks Yves

Gueguen, Maurice Bouteica, 2004-05-12 *Mechanics of Fluid Saturated Rocks* presents a current and comprehensive report on this emerging field that bridges the areas of geology and mechanics. It is of direct interest to a wide spectrum of earth scientists and engineers who are concerned with upper crust mechanics and fluid movements, the most important fluids being oil and water. This authoritative book is the result of a collaborative effort between scientists in academic institutions and industry. It examines important issues such as subsidence, geological fault formation, earthquake faulting, hydraulic fracturing, transport of fluids, and natural and direct applications. *Mechanics of Fluid Saturated Rocks* provides a unique interdisciplinary viewpoint as well as case studies, conclusions, and recommendations for further research. Covers the physical, chemical, and mechanical analysis of porous saturated rock deformation on both large and small scales. Discusses the latest developments of importance to engineers and geologists. Examines natural and direct applications. Includes extensive bibliographies for each chapter.

Thermo-Poroelasticity and Geomechanics A. P. S. Selvadurai, A. P. Suvorov, 2016-10-27 A full account of thermo poroelasticity and thermo poromechanics with derivations to problems for both experienced and novice researchers.

Geotechnical and Environmental Applications of Karst Geology and Hydrology B.F. Beck, J.G. Herring, 2001-01-01 This text covers topics such as sinkhole formation and regional studies of sinkholes and karst. Issues addressed are taken from the 8th multidisciplinary conference on this subject and chart the characteristics of sinkholes and karst as well as their environmental repercussions.

Wellbore Stability and Integrity Meng Meng, Jiajia Gao, Weicheng Zhang, Jon Jincai Zhang, 2025-11-01 *Wellbore Stability and Integrity: Models and Case Studies for Oil and Gas, Geothermal, and CO₂ Sequestration* gives today's engineers both the foundations and practical applications needed to mitigate common and future wellbore challenges. Organized into distinct parts, the book provides step-by-step instructions on how to model wellbore stability and integrity from fundamental elastic models before moving on to more advanced thermo-chemo-poro-elastic models. Dynamic loading and multiphase flow effects are also introduced, as is a comprehensive comparison between analytical methods and numerical methods in modeling wellbore stability and integrity, with recommendations for field applications of specific problems. Lastly, the reference provides guidelines for researchers and engineers on future research developments that support the energy transition, such as in geothermal wellbores and CO₂ storage capability. Supported by case studies throughout, this book delivers a critical tool for engineers to solve the future of wellbores. Presents the fundamental theories on which to model wellbore stability and integrity. Supports energy transition with applications, discussions on geothermal and CO₂ storage and injection wells. Includes practice models with case studies supplied in every chapter and additional online coding.

Potential Method in Mathematical Theories of Multi-Porosity Media Merab Svanadze, 2019-11-01 This monograph explores the application of the potential method to three-dimensional problems of the mathematical theories of elasticity and thermoelasticity for multi-porosity materials. These models offer several new possibilities for the study of important problems in engineering and mechanics involving multi-porosity materials, including

geological materials e.g. oil gas and geothermal reservoirs manufactured porous materials e.g. ceramics and pressed powders and biomaterials e.g. bone and the human brain Proceeding from basic to more advanced material the first part of the book begins with fundamental solutions in elasticity followed by Galerkin type solutions and Green's formulae in elasticity and problems of steady vibrations quasi static and pseudo oscillations for multi porosity materials The next part follows a similar format for thermoelasticity concluding with a chapter on problems of heat conduction for rigid bodies The final chapter then presents a number of open research problems to which the results presented here can be applied All results discussed by the author have not been published previously and offer new insights into these models Potential Method in Mathematical Theories of Multi Porosity Media will be a valuable resource for applied mathematicians mechanical civil and aerospace engineers and researchers studying continuum mechanics Readers should be knowledgeable in classical theories of elasticity and thermoelasticity

Continuum Thermodynamics - Part II: Applications And Examples Krzysztof

Wilmanski, Bettina Albers, 2014-11-12 This second part of Continuum Thermodynamics is designed to match almost one to one the chapters of Part I This is done so that the reader studying thermodynamics will have a deepened understanding of the subjects covered in Part I The aims of the book are in particular the illustration of basic features of some simple thermodynamical models such as ideal and viscous fluids non Newtonian fluids nonlinear solids interactions with electromagnetic fields and diffusive porous materials A further aim is the illustration of the above subjects by examples and simple solutions of initial and boundary problems as well as simple exercises to develop skills in the construction of interdisciplinary macroscopic models

Handbook of Porous Media Kambiz Vafai, 2015-06-23 Handbook of Porous Media

Third Edition offers a comprehensive overview of the latest theories on flow transport and heat exchange processes in porous media It also details sophisticated porous media models which can be used to improve the accuracy of modeling in a variety of practical applications Featuring contributions from leading experts in

Applied Parallel and Scientific Computing Pekka

Manninen, Per Öster, 2013-02-12 This volume constitutes the refereed proceedings of the 11th International Conference on Applied Parallel and Scientific Computing PARA 2012 held in Helsinki Finland in June 2012 The 35 revised full papers presented were selected from numerous submissions and are organized in five technical sessions covering the topics of advances in HPC applications parallel algorithms performance analyses and optimization application of parallel computing in industry and engineering and HPC interval methods In addition three of the topical minisymposia are described by a corresponding overview article on the minisymposia topic In order to cover the state of the art of the field at the end of the book a set of abstracts describe some of the conference talks not elaborated into full articles

Geomechanics and

Geodynamics of Rock Masses Vladimir Litvinenko, 2018-05-15 Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22-26 May 2018 Dedicated to recent advances and achievements in the fields of

geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

Wave Fields in Real Media José M. Carcione, 2022-08-04 Wave Fields in Real Media Wave Propagation in Anisotropic Anelastic Porous and Electromagnetic Media examines the differences between an ideal and a real description of wave propagation starting with the introduction of relevant constitutive relations The differential formulation can be written in terms of memory variables and Biot theory is used to describe wave propagation in porous media For each constitutive relation a plane wave analysis is performed to illustrate the physics of wave propagation New topics are the S wave amplification function Fermat principle and its relation to Snell law bounds and averages of seismic Q seismic attenuation in partially molten rocks and more This book contains a review of the main direct numerical methods for solving the equation of motion in the time and space domains The emphasis is on geophysical applications for seismic exploration but researchers in the fields of earthquake seismology rock acoustics and material science including many branches of acoustics of fluids and solids may also find this text useful Examines the fundamentals of wave propagation in anisotropic anelastic and porous media Presents all equations and concepts necessary to understand the physics of wave propagation Emphasizes geophysics particularly seismic exploration for hydrocarbon reservoirs which is essential for the exploration and production of oil

Geomechanics and Geodynamics of Rock Masses - Volume 2 Vladimir Litvinenko, 2018-05-20 This book is Volume 2 of the EUROCK 2018 proceedings Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22-26 May 2018 Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior

Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

Mathematical and Numerical Modeling in Porous Media Martin A. Diaz Viera,Pratap Sahay,Manuel Coronado,Arturo Ortiz Tapia,2012-07-24 Porous media are broadly found in nature and their study is of high relevance in our present lives In geosciences porous media research is fundamental in applications to aquifers mineral mines contaminant transport soil remediation waste storage oil recovery and geothermal energy deposits Despite their importance there is as yet no complete

Network Materials Catalin R. Picu,2022-09-22 Introducing and defining a new class of materials this comprehensive book provides tools to design and develop new material systems

Fluid-Induced Seismicity Serge A. Shapiro,2015-04-23 The characterisation of fluid transport properties of rocks is one of the most important yet difficult challenges of reservoir geophysics but is essential for optimal development of hydrocarbon and geothermal reservoirs This book provides a quantitative introduction to the underlying physics application interpretation and hazard aspects of fluid induced seismicity with a particular focus on its spatio temporal dynamics It presents many real data examples of microseismic monitoring of hydraulic fracturing at hydrocarbon fields and of stimulations of enhanced geothermal systems The author also covers introductory aspects of linear elasticity and poroelasticity theory as well as elements of seismic rock physics and mechanics of earthquakes enabling readers to develop a comprehensive understanding of the field Fluid Induced Seismicity is a valuable reference for researchers and graduate students working in the fields of geophysics geology geomechanics and petrophysics and a practical guide for petroleum geoscientists and engineers working in the energy industry

Fundamentals of Computational Fluid Dynamics Clovis R. Maliska,2023-01-19 This book presents the developments of the finite volume method applied to fluid flows starting from the foundations of the method and reaching the latest approaches using unstructured grids It helps students learn progressively creating a strong background on CFD The text is divided into two parts The first one is about the basic concepts of the finite volume method while the second one presents the formulation of the finite volume method for any kind of domain discretization In the first part of the text for the sake of simplicity the developments are done using the Cartesian coordinate system without prejudice to the complete understanding The second part extends this knowledge to curvilinear and unstructured grids As such the book contains material for introductory courses on CFD for under and graduate students as well as for more advanced students and researchers

Constitutive Modelling of Solid Continua José Merodio,Raymond W. Ogden,2025-10-26 This second edition offers a comprehensive collection of state of the art chapters on continuum mechanics covering topics such as the constitutive theory of magnetoelastic solids solids with evolving reference configurations second gradient solids and biological tissues Featuring both updated original chapters and new contributions from leading experts it provides a rigorous

theoretical treatment of constitutive laws for modeling the mechanical and coupled field behavior of solid materials The book explores a broad spectrum of material behavior including isotropic and anisotropic nonlinear elasticity implicit theories viscoelasticity plasticity electro and magneto mechanical interactions growth damage thermomechanics poroelasticity composites and homogenization By presenting a unified theoretical framework it serves as a valuable resource for researchers studying the deformation of solid materials across various applications and is an essential reference for graduate students senior academics and industry professionals alike

Continuum Thermodynamics Bettina Albers, Krzysztof Wilmański, 2014-11-12 This second part of Continuum Thermodynamics is designed to match almost one to one the chapters of Part I This is done so that the reader studying thermodynamics will have a deepened understanding of the subjects covered in Part I The aims of the book are in particular the illustration of basic features of some simple thermodynamical models such as ideal and viscous fluids non Newtonian fluids nonlinear solids interactions with electromagnetic fields and diffusive porous materials A further aim is the illustration of the above subjects by examples and simple solutions of initial and boundary problems as well as simple exercises to develop skills in the construction of interdisciplinary macroscopic models

Theory Of Linear Poroelasticity With Applications To Geomechanics And Hydrogeology: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Theory Of Linear Poroelasticity With Applications To Geomechanics And Hydrogeology : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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