



POROELASTIC STRUCTURES

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Poroelastic Structures

Wolfgang E. Nagel



Poroelectric Structures:

Poroelectric Structures G. Cederbaum, L. P. Li, K. Schulgasser, 2000-07-12 Poroelectricity is a continuum theory for the analysis of a porous media consisting of an elastic matrix containing interconnected fluid saturated pores In physical terms the theory postulates that when a porous material is subjected to stress the resulting matrix deformation leads to volumetric changes in the pores This book is devoted to the analysis of fluid saturated poroelectric beams columns and plates made of materials for which diffusion in the longitudinal direction s is viable while in the perpendicular direction s the flow can be considered negligible because of the micro geometry of the solid skeletal material Many microstructures and fabrication schemes could be imagined which would produce bulk materials with the postulated behavior The book provides a methodology and a theoretical basis for investigating the mechanical behaviors of the structural elements made of such materials It is recognized that the response of the poroelectric structural element to loading is sensitive to the properties of the fluid and to the diffusion boundaries which can be easily altered in practice Therefore such structural elements and thus their features are potentially controllable In other words it could be possible to convert such elements into intelligent or smart structures If this is so it would be interesting that such structural elements could work as both sensors and actuators e g the fluid can feel the change of the temperature by changing its viscosity and this results in a change of the behavior of the structure The present book is the first of its kind there does not exist in the professional literature any book which deals with this subject Chapter 1 is a general introduction and overview The governing equations for beams are presented in Chapter 2 Chapter 3 then presents analytical solutions for the quasi static bending problem Series solutions are found for normal loading with various mechanical and diffusion boundary conditions The finite element method is developed and employed for the quasi static beams and columns with small deflections in Chapter 4 In Chapter 5 solutions are found for free and forced vibrations of poroelectric beams Chapter 6 deals with large deflections of beams The stability of poroelectric columns is investigated in Chapter 7 Three problems are considered buckling post buckling and dynamic stability Formulations are found in Chapter 8 for fluid saturated poroelectric plates consisting of a material for which the diffusion is possible in the in plane directions only both for bending and for in plane loading This book attempts to constitute a reasonably self contained presentation of a wide spectrum of problems related to the analysis of the type of poroelectric structure considered

Acoustic Waves in Periodic Structures, Metamaterials, and Porous Media Noé Jiménez, Olga Umnova, Jean-Philippe Groby, 2021-11-03 This book delivers a comprehensive and up to date treatment of practical applications of metamaterials structured media and conventional porous materials With increasing levels of urbanization a growing demand for motorized transport and inefficient urban planning environmental noise exposure is rapidly becoming a pressing societal and health concern Phononic and sonic crystals acoustic metamaterials and metasurfaces can revolutionize noise and vibration control and in many cases replace traditional porous materials for these applications In this collection of contributed chapters a

group of international researchers reviews the essentials of acoustic wave propagation in metamaterials and porous absorbers with viscothermal losses as well as the most recent advances in the design of acoustic metamaterial absorbers The book features a detailed theoretical introduction describing commonly used modelling techniques such as plane wave expansion multiple scattering theory and the transfer matrix method The following chapters give a detailed consideration of acoustic wave propagation in viscothermal fluids and porous media and the extension of this theory to non local models for fluid saturated metamaterials along with a description of the relevant numerical methods Finally the book reviews a range of practical industrial applications making it especially attractive as a white book targeted at the building automotive and aeronautic industries

Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications Alphose Zingoni, 2019-08-21 *Advances in Engineering Materials Structures and Systems Innovations Mechanics and Applications* comprises 411 papers that were presented at SEMC 2019 the Seventh International Conference on Structural Engineering Mechanics and Computation held in Cape Town South Africa from 2 to 4 September 2019 The subject matter reflects the broad scope of SEMC conferences and covers a wide variety of engineering materials both traditional and innovative and many types of structures The many topics featured in these Proceedings can be classified into six broad categories that deal with i the mechanics of materials and fluids elasticity plasticity flow through porous media fluid dynamics fracture fatigue damage delamination corrosion bond creep shrinkage etc ii the mechanics of structures and systems structural dynamics vibration seismic response soil structure interaction fluid structure interaction response to blast and impact response to fire structural stability buckling collapse behaviour iii the numerical modelling and experimental testing of materials and structures numerical methods simulation techniques multi scale modelling computational modelling laboratory testing field testing experimental measurements iv innovations and special structures nanostructures adaptive structures smart structures composite structures bio inspired structures shell structures membranes space structures lightweight structures long span structures tall buildings wind turbines etc v design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber glass vi the process of structural engineering conceptualisation planning analysis design optimization construction assembly manufacture testing maintenance monitoring assessment repair strengthening retrofitting decommissioning The SEMC 2019 Proceedings will be of interest to civil structural mechanical marine and aerospace engineers Researchers developers practitioners and academics in these disciplines will find them useful Two versions of the papers are available Short versions intended to be concise but self contained summaries of the full papers are in this printed book The full versions of the papers are in the e book

Wave Propagation in Viscoelastic and Poroelastic Continua Martin Schanz, 2012-11-27 Wave propagation is an important topic in engineering sciences especially in the field of solid mechanics A description of wave propagation phenomena is given by Graff 98 The effect of a sharply applied localized disturbance in a medium soon transmits or spreads to other parts of the medium These effects are familiar

to everyone e.g. transmission of sound in air, the spreading of ripples on a pond of water or the transmission of radio waves. From all wave types in nature, here attention is focused only on waves in solids. Thus, solely mechanical disturbances, in contrast to electro-magnetic or acoustic disturbances, are considered. Of waves, the compression wave is similar to the one in fluids. In solids, there are two types: pressure wave in fluids and additionally the shear wave. Due to continual reflections at boundaries and propagation of waves in bounded solids, after some time a steady state is reached. Depending on the influence of the inertia terms, this state is governed by a static or dynamic equilibrium in frequency domain. However, if the rate of onset of the load is high compared to the time needed to reach this steady state, wave propagation phenomena have to be considered.

Vibration, Structural Engineering and Measurement I Paul P. Lin, Chun Liang Zhang, 2011-09-27. Selected peer-reviewed papers from the 2011 International Conference on Vibration Structural Engineering and Measurement ICVSEM 2011, October 21-23, 2011, Shanghai, China. **Theory of Poroelastic Structures with Diffusion in the Longitudinal Directions** Leping Li, 1997. **Poro-Elastic Theory with Applications to Transport in Porous Media** Dong-Sheng Jeng, Lin Cui, 2023-04-20. This book treats the subject of porous flow and its applications in three engineering and scientific problems. The first major part of the book is devoted to solute transport in unsaturated porous media. Dynamic hydraulic conductivity and degree of saturation associated with pore pressures are also included in the consolidation-induced solute transport process. The second part of this book focuses on tidal dynamics in coastal aquifers, including shallow water expansion for sloping beaches, two-dimensional problem in estuarine zone and leaky confined aquifers. The final part of the book summarizes the recent development of porous model in the field of liquefaction around marine infrastructures, including fundamental mechanisms of momentary and residual seabed liquefaction, two-dimensional and three-dimensional porous models for fluid-seabed interactions around breakwaters, pipelines and piled foundations in marine environments. The authors' aim is to describe in detail the applications of porous models for several engineering problems. This book will provide academic researchers and industry an overview of recent development in the field of porous models and the applications. The Open Access version of this book is available at <http://www.taylorfrancis.com> and has been made available under a Creative Commons Non-Commercial No Derivatives CC BY-NC-ND 4.0 license. Funded by Qingdao University, Technology, China.

Mechanics of Poroelastic Media A.P.S. Selvadurai, 2013-03-14. 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. Advances in Frontier Research on Engineering Structures A.

Cheshmehzangi,H. Bilgin,2023-10-19 Civil architecture and structural engineering may be subjects to which most of us never give a second thought but both these disciplines are crucial to the built environment in which we live and without the skills of those who work in them our buildings and infrastructure would lack the safety and reliability that we all take for granted This book presents the proceedings of ICCASE 2023 the 7th International Conference on Civil Architecture and Structural Engineering held in Guangzhou China from 14 16 April 2023 as a virtual event and attended by around 250 international participants The aim of the conference was to discuss recent advances and new perspectives in civil architecture and structural engineering and to gain insight into the current state of the field and future scenarios A total of 190 submissions were received for the conference of which 78 were accepted for presentation after peer review These are divided into 4 sections civil construction and underground structure analysis underground space and special structure engineering construction material quality and performance research and structural seismic design and reinforcement engineering Topics covered included high rise buildings and large span structures the monitoring and control of structures tunnels and underground structures calculation principles of the seismic design of structures and seismic isolation technology of structures among others The book offers a comprehensive overview of civil architecture and structural engineering today and will be of interest to all those working in the field Advances in Mechanics of Materials and Structural Analysis Holm

Altenbach, Frank Jablonski, Wolfgang H. Müller, Konstantin Naumenko, Patrick Schneider, 2018-01-04 This book presents a collection of contributions on the advanced mechanics of materials and mechanics of structures approaches written in honor of Professor Kienzler It covers various topics related to constitutive models for advanced materials recent developments in mechanics of configuration forces as well as new approaches to the efficient modeling and analysis of engineering structures

High Performance Computing in Science and Engineering ' 07 Wolfgang E. Nagel, 2007-12-18 This book presents the state of the art in simulation on supercomputers Leading researchers present results achieved on systems of the Stuttgart High Performance Computing Center in 2007 The reports cover all fields of computational science and engineering with emphasis on industrially relevant applications Presenting results for both vector based and microprocessor based systems the book allows comparison between performance levels and usability of various architectures **Numerical**

Mathematics and Advanced Applications ENUMATH 2023, Volume 1 Adélia Sequeira, Ana Silvestre, Svilen S.

Valtchev, João Janela, 2025-04-24 This book gathers outstanding papers presented at the European Conference on Numerical Mathematics and Advanced Applications ENUMATH 2023 The conference was held in Lisbon Portugal in September 2023 Leading experts in the field presented the latest results and ideas regarding the design implementation and analysis of numerical algorithms as well as their applications to relevant societal problems ENUMATH is a series of conferences held every two years to provide a forum for discussing basic aspects and new trends in numerical mathematics and its scientific and industrial applications all examined at the highest level of international expertise The first ENUMATH was held in Paris

in 1995 with successive installments at various sites across Europe including Heidelberg 1997 Jyväskylä 1999 Ischia Porto 2001 Prague 2003 Santiago de Compostela 2005 Graz 2007 Uppsala 2009 Leicester 2011 Lausanne 2013 Ankara 2015 Bergen 2017 and Egmond aan Zee 2019 The Shock and Vibration Digest ,1991 *Advanced Functional Materials* Nevin Tasaltin,Paul Sunday Nnamchi,Safaa Saud,2020-11-26 This book was written by authors in the field of preparation of advanced functional materials and their wide ranging applications The topics in the book include preparation of several advanced functional materials and their applications in sensors health concrete textile glasses and pharmacy In this book the authors focused on recent studies applications and new technological developments in fundamental properties of advanced functional materials **Finite Element and Boundary Methods in Structural Acoustics and Vibration** Nouredine Atalla,Franck Sgard,2015-04-17 Effectively Construct Integral Formulations Suitable for Numerical Implementation Finite Element and Boundary Methods in Structural Acoustics and Vibration provides a unique and in depth presentation of the finite element method FEM and the boundary element method BEM in structural acoustics and vibrations It illustrates the principles using a **Structural Acoustic Prediction and Interior Noise Control Technology** ,2001 **Issues in Structural and Materials Engineering: 2011 Edition** ,2012-01-09 Issues in Structural and Materials Engineering 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Structural and Materials Engineering The editors have built Issues in Structural and Materials Engineering 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Structural and Materials Engineering in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Structural and Materials Engineering 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at [http www ScholarlyEditions com](http://www.ScholarlyEditions.com) Structural Dynamics - Vol 1 Proceedings Editors,2022-03-02 First published in 1991 This volume contains the proceedings of the first European Conference on Structural Dynamics Eurodyne 90 held at the Ruhr University Bochum FRG in June 1990 Volume one 169 9 covers impact dynamic stability soil dynamics system identification earthquake engineering earthquake engineering R C structures and earthquake engineering for steel structures *Recent Advances In Computational Science And Engineering - Proceedings Of The International Conference On Scientific And Engineering Computation (Ic-sec) 2002* Justin Kwok,Heow-pueh Lee,Kurichi Kumar,2002-12-02 IC SEC 2002 serves as a forum for engineers and scientists who are involved in the use of high performance computers advanced numerical strategies computational methods and simulation in various scientific and engineering disciplines The conference creates a platform for presenting and discussing the latest trends and findings about the state of the art in their particular field s of interest IC SEC

also provides a forum for the interdisciplinary blending of computational efforts in various diversified areas of science such as biology chemistry physics and materials science as well as all branches of engineering The proceedings cover a broad range of topics and an application area which involves modelling and simulation work using high performance computers

Mechanics and Model-Based Control of Advanced Engineering Systems Alexander K. Belyaev, Hans Irschik, Michael Krommer, 2013-12-12 Mechanics and Model Based Control of Advanced Engineering Systems collects 32 contributions presented at the International Workshop on Advanced Dynamics and Model Based Control of Structures and Machines which took place in St Petersburg Russia in July 2012 The workshop continued a series of international workshops which started with a Japan Austria Joint Workshop on Mechanics and Model Based Control of Smart Materials and Structures and a Russia Austria Joint Workshop on Advanced Dynamics and Model Based Control of Structures and Machines In the present volume 10 full length papers based on presentations from Russia 9 from Austria 8 from Japan 3 from Italy one from Germany and one from Taiwan are included which represent the state of the art in the field of mechanics and model based control with particular emphasis on the application of advanced structures and machines

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