

Yasuaki Ichikawa · A.P.S. Selvadurai

Transport Phenomena in Porous Media

Aspects of Micro/Macro Behaviour

Transport Phenomena In Porous Media Aspects Of Micromacro Behaviour

Kambiz Vafai



Transport Phenomena In Porous Media Aspects Of Micromacro Behaviour:

Transport Phenomena in Porous Media Yasuaki Ichikawa,A.P.S. Selvadurai,2012-02-10 This monograph presents an integrated perspective of the wide range of phenomena and processes applicable to the study of transport of species in porous materials In order to formulate the entire range of porous media and their uses this book gives the basics of continuum mechanics thermodynamics seepage and consolidation and diffusion including multiscale homogenization methods The particular structure of the book has been chosen because it is essential to be aware of the true properties of porous materials particularly in terms of nano micro and macro mechanisms This book is of pedagogical and practical importance to the fields covered by civil environmental nuclear and petroleum engineering and also in chemical physics and geophysics as it relates to radioactive waste disposal geotechnical engineering mining and petroleum engineering and chemical engineering 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 i *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 **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 Modeling Transport Phenomena in Porous Media with Applications Malay K. Das,Partha P. Mukherjee,K. Muralidhar,2017-11-21 This book is an ensemble of six major chapters an introduction and a closure on modeling transport phenomena in porous media with applications Two of the six chapters explain the underlying

theories whereas the rest focus on new applications Porous media transport is essentially a multi scale process Accordingly the related theory described in the second and third chapters covers both continuum and meso scale phenomena Examining the continuum formulation imparts rigor to the empirical porous media models while the mesoscopic model focuses on the physical processes within the pores Porous media models are discussed in the context of a few important engineering applications These include biomedical problems gas hydrate reservoirs regenerators and fuel cells The discussion reveals the strengths and weaknesses of existing models as well as future research directions *Crustal Permeability* Tom

Gleeson, Steve Ingebritsen, 2016-11-30 Permeability is the primary control on fluid flow in the Earth's crust and is key to a surprisingly wide range of geological processes because it controls the advection of heat and solutes and the generation of anomalous pore pressures The practical importance of permeability and the potential for large dynamic changes in permeability is highlighted by ongoing issues associated with hydraulic fracturing for hydrocarbon production fracking enhanced geothermal systems and geologic carbon sequestration Although there are thousands of research papers on crustal permeability this is the first book length treatment This book bridges the historical dichotomy between the hydrogeologic perspective of permeability as a static material property and the perspective of other Earth scientists who have long recognized permeability as a dynamic parameter that changes in response to tectonism fluid production and geochemical reactions *Views on Microstructures in Granular Materials* Pasquale Giovine, Paolo Maria Mariano, Giuseppe

Mortara, 2020-11-09 This contributed volume provides an up to date overview of the mechanics of granular materials ranging from sparse media to soils With chapters exploring state of the art theoretical experimental and applied trends in the study of granular matter in various states readers will be motivated to learn about the current challenges and potential avenues of exploration in this active area of research Including a variety of perspectives this volume will be a valuable reference for audiences in a number of fields Specific topics covered include X ray tomography techniques for analyzing sand Evaluation of effective stress in unsaturated soils Hyper plasticity Wave propagation in granular systems Partly saturated porous media Multi scale approaches to the dynamics of sparse media *Views on Microstructures in Granular Materials* is an ideal resource for PhD students and researchers in applied mathematics solid state physics civil engineering and mechanical engineering

Micro-Macro-Interactions Albrecht Bertram, Jürgen Tomas, 2008-10-23 Many materials or media in nature and technology possess a microstructure which determines their macroscopic behaviour The knowledge of the relevant mechanisms is often more comprehensive on the micro than on the macro scale On the other hand not all information on the micro level is relevant for the understanding of this macro behaviour Therefore averaging and homogenization methods are needed to select only the specific information from the micro scale which influences the macro scale These methods also open the possibility to design or to influence microstructures with the objective to optimize their macro behaviour This book presents the development of new methods in this interdisciplinary field of macro micro interactions of different engineering branches

like mechanical and process engineering applied mathematics theoretical and computational physics In particular solids with microstructures and particle systems are considered **Applied Micromechanics of Porous Materials** Luc Dormieux, Franz-Josef Ulm, 2007-03-23 Poromechanics is the mechanics of porous materials and is now a well established field in many engineering disciplines ranging from Civil Engineering Geophysics Petroleum Engineering to Bioengineering However a rigorous approach that links the physics of the phenomena at stake in porous materials and the macroscopic behaviour is still missing This book presents such an approach by means of homogenization techniques Rigorously founded in various theories of micromechanics these up scaling techniques are developed for the homogenization of transport properties stiffness and strength properties of porous materials The special feature of this book is the balance between theory and application providing the reader with a comprehensive introduction to state of the art homogenization theories and applications to a large range of real life porous materials concrete rocks shales bones etc Homogenization of Coupled Phenomena in Heterogeneous Media Jean-Louis Auriault, Claude Boutin, Christian Geindreau, 2010-01-05 Both naturally occurring and man made materials are often heterogeneous materials formed of various constituents with different properties and behaviours Studies are usually carried out on volumes of materials that contain a large number of heterogeneities Describing these media by using appropriate mathematical models to describe each constituent turns out to be an intractable problem Instead they are generally investigated by using an equivalent macroscopic description relative to the microscopic heterogeneity scale which describes the overall behaviour of the media Fundamental questions then arise Is such an equivalent macroscopic description possible What is the domain of validity of this macroscopic description The homogenization technique provides complete and rigorous answers to these questions This book aims to summarize the homogenization technique and its contribution to engineering sciences Researchers graduate students and engineers will find here a unified and concise presentation The book is divided into four parts whose main topics are Introduction to the homogenization technique for periodic or random media with emphasis on the physics involved in the mathematical process and the applications to real materials Heat and mass transfers in porous media Newtonian fluid flow in rigid porous media under different regimes Quasi statics and dynamics of saturated deformable porous media Each part is illustrated by numerical or analytical applications as well as comparison with the self consistent approach

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