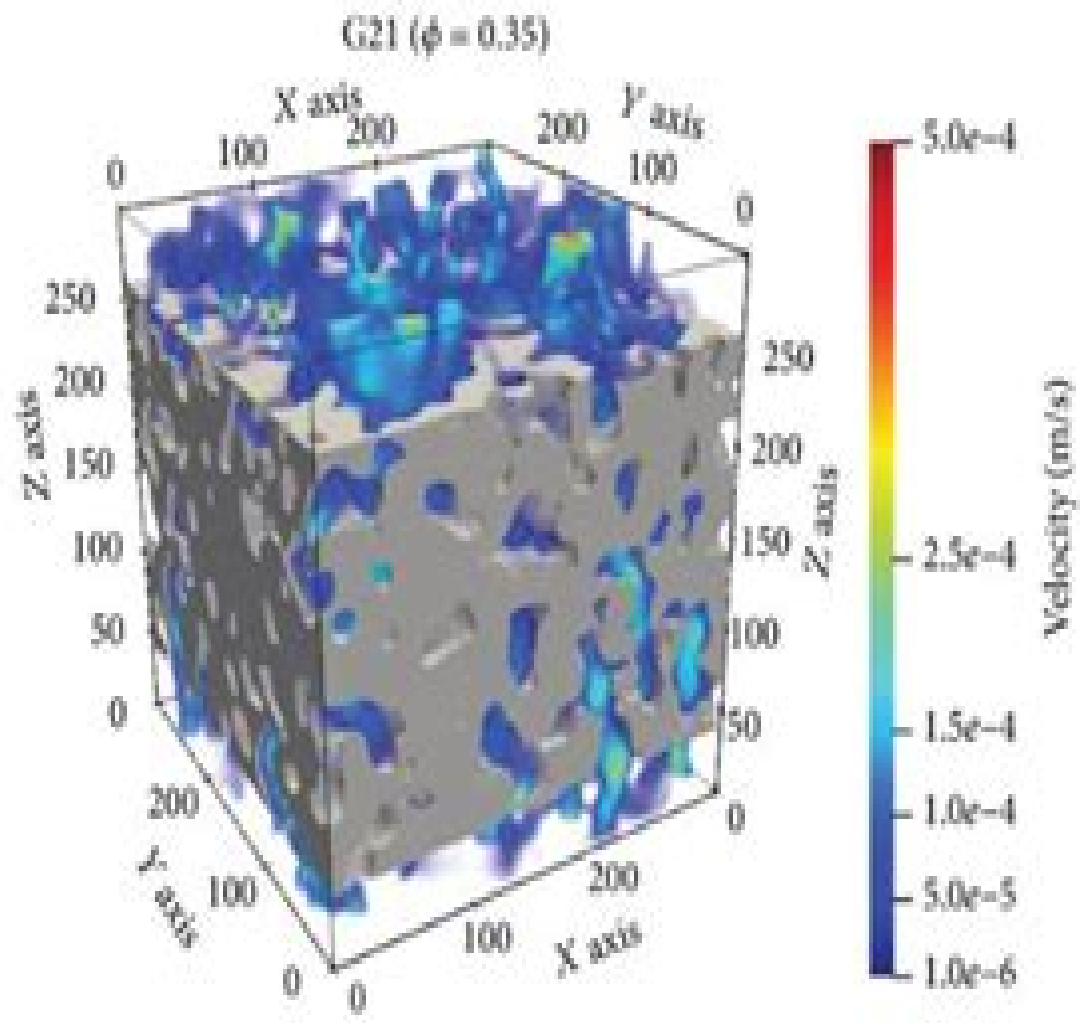
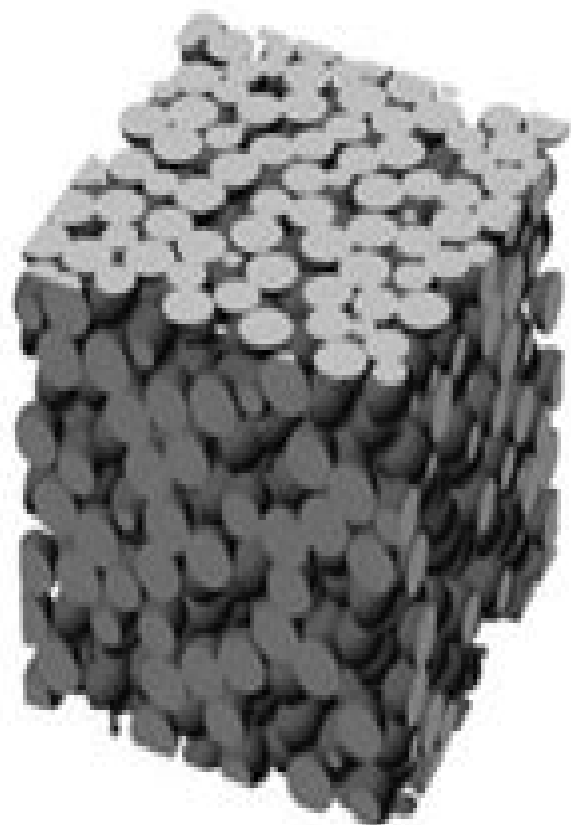


# Porous Media



# Porous Media

**Michael C. Flickinger**



## **Porous Media:**

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 the field.

*Porous Media* Wolfgang Ehlers, J. Bluhm, 2013-03-09 The present volume offers a state of the art report on the various recent scientific developments in the Theory of Porous Media. It comprehends the basic theoretical concepts in continuum mechanics on porous and multiphase materials as well as the wide range of experimental and numerical applications. Following this, the volume does not only address the sophisticated reader but also the interested beginner in the area of Porous Media by presenting a collection of articles. These articles, written by experts in the field, concern the fundamental approaches to multiphase and porous materials as well as various applications to engineering problems. In many branches of engineering just as in applied natural sciences like bio and chemomechanics one often has to deal with continuum mechanical problems which cannot be uniquely classified within the well known disciplines of either solid mechanics or fluid mechanics. These problems are characterized by the fact that they require a unified treatment of volumetrically coupled solid fluid aggregates. Basically, they fall into the categories of either mixtures or porous media. Following this, there is a broad variety of problems ranging in this category as for example the investigation of reacting fluid mixtures or solid fluid suspensions as well as the investigation of the coupled solid deformation and pore fluid flow behaviour of liquid and gas saturated porous solid skeleton materials like geomaterials, soil, rock, concrete etc., polymeric and metallic foams or biomaterials, hard and soft tissues etc.

**Convection in Porous Media** Donald A. Nield, Adrian Bejan, 2012-11-30 Convection in Porous Media 4th Edition provides a user friendly introduction to the subject covering a wide range of topics such as fibrous insulation, geological strata and catalytic reactors. The presentation is self contained requiring only routine mathematics and the basic elements of fluid mechanics and heat transfer. The book will be of use not only to researchers and practicing engineers as a review and reference but also to graduate students and others entering the field. The new edition features approximately 1 750 new references and covers current research in nanofluids, cellular porous materials, strong heterogeneity, pulsating flow and more.

*Essentials of Heat and Fluid Flow in Porous Media* Arun Narasimhan, 2022-06-03 This textbook provides a general overview of porous media flow and introduces various theoretical tools to characterize and predict the flow. It has been written for graduate and advanced graduate students in various engineering disciplines. It includes the topics such as fluid flow, conduction, convection and radiation in porous media as well as porous medium aspects of biological systems. The concepts are supported by numerous solved examples to aid self learning in students. The textbook also contains illustrated diagrams for better understanding of the concepts. This textbook will be useful for the core course of Flow through Porous media for graduate and advanced graduate students in various engineering disciplines. This textbook

will also serve as a refresher course for researchers who are engaged in research related to porous media flow **Modeling Approaches to Natural Convection in Porous Media** Yan Su, Jane H. Davidson, 2015-03-12 This book provides an overview of the field of flow and heat transfer in porous medium and focuses on presentation of a generalized approach to predict drag and convective heat transfer within porous medium of arbitrary microscopic geometry including reticulated foams and packed beds Practical numerical methods to solve natural convection problems in porous media will be presented with illustrative applications for filtrations thermal storage and solar receivers **Convection in Porous Media** D.A.

Nield, Adrian Bejan, 2006-12-06 end of Chapter 11 geophysical aspects Once again we decided that except for a brief mention convection in unsaturated media had to be beyond the scope of this book D A N

again enjoyed the hospitality of the Department of Mechanical Engineering and Materials Science at Duke University while on Research and Study Leave from the University of Auckland and both of those institutions again provided financial support We are grateful for comments from Graham Weir and Roger Young on a draft of Section 11.9 a topic on which we had much to learn We also are grateful to a large number of people who provided us with preprints of their papers prior to publication Other colleagues have improved our understanding of the subject of this book in ways too numerous to mention here Once again we relied on the expertise and hard work of Linda Hayes for the preparation of the electronic version of our manuscript and again the staff at the Engineering Library of Duke University made our search of the literature an enjoyable experience

**Flow and Transport in Porous Media and Fractured Rock** Muhammad Sahimi, 2011-05-09 In this standard reference of the field theoretical and experimental approaches to flow hydrodynamic dispersion and miscible displacements in porous media and fractured rock are considered Two different approaches are discussed and contrasted with each other The first approach is based on the classical equations of flow and transport called continuum models The second approach is based on modern methods of statistical physics of disordered media that is on discrete models which have become increasingly popular over the past 15 years The book is unique in its scope since 1 there is currently no book that compares the two approaches and covers all important aspects of porous media problems and 2 includes discussion of fractured rocks which so far has been treated as a separate subject Portions of the book would be suitable for an advanced undergraduate course The book will be ideal for graduate courses on the subject and can be used by chemical petroleum civil environmental engineers and geologists as well as physicists applied physicist and allied scientists that deal with various porous media problems

**Convective Heat Transfer in Porous Media** Yasser Mahmoudi, Kamel Hooman, Kambiz Vafai, 2019-11-06 Focusing on heat transfer in porous media this book covers recent advances in nano and macro scales Apart from introducing heat flux bifurcation and splitting within porous media it highlights two phase flow nanofluids wicking and convection in bi-disperse porous media New methods in modeling heat and transport in porous media such as pore scale analysis and Lattice Boltzmann methods are introduced The book covers related engineering applications such as enhanced geothermal systems

porous burners solar systems transpiration cooling in aerospace heat transfer enhancement and electronic cooling drying and soil evaporation foam heat exchangers and polymer electrolyte fuel cells

### **Principles of Heat Transfer in Porous Media**

**Media** Maasoud Kaviany, 2012-12-06 Convective heat transfer is the result of fluid flowing between objects of different temperatures. Thus it may be the objective of a process as in refrigeration or it may be an incidental aspect of other processes. This monograph reviews in a concise and unified manner recent contributions to the principles of convective heat transfer for single and multi phase systems. It summarizes the role of the fundamental mechanism, discusses the governing differential equations, describes approximation schemes and phenomenological models and examines their solutions and applications. After a review of the basic physics and thermodynamics, the book divides the subject into three parts. Part 1 deals with single medium transfer specifically with intraphase transfers in single phase flows and with intramedium transfers in two phase flows. Part 2 deals with fluid solid transfer processes both in cases where the interface is small and in cases where it is large as well as liquid liquid transfer processes. Part 3 considers three media addressing both liquid solid solid and gas liquid solid systems.

*Transport Phenomena in Porous Media* Derek B Ingham, I. Pop, 1998-09-07 Research into thermal convection in porous media has substantially increased during recent years due to its numerous practical applications. These problems have attracted the attention of industrialists, engineers and scientists from many very diversified disciplines such as applied mathematics, chemical, civil, environmental, mechanical and nuclear engineering, geothermal physics and food science. Thus there is a wealth of information now available on convective processes in porous media and it is therefore appropriate and timely to undertake a new critical evaluation of this contemporary information. *Transport Phenomena in Porous Media* contains 17 chapters and represents the collective work of 27 of the world's leading experts from 12 countries in heat transfer in porous media. The recent intensive research in this area has substantially raised the expectations for numerous new practical applications and this makes the book a most timely addition to the existing literature. It includes recent major developments in both the fundamentals and applications and provides valuable information to researchers dealing with practical problems in thermal convection in porous media. Each chapter of the book describes recent developments in the highly advanced analytical, numerical and experimental techniques which are currently being employed and discussions of possible future developments are provided. Such reviews not only result in the consolidation of the currently available information but also facilitate the identification of new industrial applications and research topics which merit further work.

*Modeling Phenomena of Flow and Transport in Porous Media* Jacob Bear, 2018-01-25 This book presents and discusses the construction of mathematical models that describe phenomena of flow and transport in porous media as encountered in civil and environmental engineering, petroleum and agricultural engineering as well as chemical and geothermal engineering. The phenomena of transport of extensive quantities like mass of fluid phases, mass of chemical species dissolved in fluid phases, momentum and energy of the solid matrix and of fluid phases occupying the void space of porous medium domains

are encountered in all these disciplines The book which can also serve as a text for courses on modeling in these disciplines starts from first principles and focuses on the construction of well posed mathematical models that describe all these transport phenomena

Fluid Flow and Heat Transfer in Porous Media Manufactured by a Space Holder Method Xianke Lu, 2020-08-27 This book focuses on the effects of the material porosity pore size and pore shape on flow behaviour and heat transfer in microscale porous media manufactured using a space holder method It also describes a novel approach to studying flow behaviour in non transparent materials such as porous metals via flow visualization in transparent media that mimic the porous structure The book employs a combination of microparticle image velocimetry a modern advanced technique and pressure drop measurement a more traditional method that makes the mechanistic study of several phenomena possible It covers the identification of various flow regimes and their boundaries velocity profiles on the microscale the heat transfer coefficient under forced convection and the correlation between flow behaviour on the pore scale and the convective heat transfer performance of the porous media Understanding the fundamentals of porous flow especially on the microscale is critical for applications of porous media in heat exchangers catalytic convertors chemical reactors filtration and oil extraction Accordingly this book offers a valuable resource for all researchers graduate students and engineers working in the areas of porous flow and porous materials

**Mass Transfer Driven Evaporation From Capillary Porous Media** Rui Wu, Marc Prat, 2022-11-09 Mass Transfer Driven Evaporation from Capillary Porous Media offers a comprehensive review of mass transfer driven drying processes in capillary porous media including pore scale and macro scale experiments and models It covers kinetics of drying of a single pore pore scale experiments and models macro scale experiments and models and understanding of the continuum model from pore scale studies The book Explains the detailed transport processes in porous media during drying Introduces cutting edge visualization experiments of drying in porous media Describes the pore network models of drying in porous media Discusses the continuum models of drying in porous media based on pore scale studies Points out future research opportunities Aimed at researchers students and practicing engineers this work provides vital fundamental and applied information to those working in drying technology food processes applied energy and mechanical and chemical engineering

*Emerging Topics in Heat and Mass Transfer in Porous Media* Peter Vadasz, 2008-04-09 The very first major reference text on this topic this book provides a unique collection of articles reviewing the state of the art in the field It gives particular emphasis to emerging technologies from bioengineering and bio tissues to nanotechnology The integration of the different topics is presented via a combination of theoretical and applied methodology to provide a self contained major reference that is appealing to both the scientist and the engineer

Emerging Technologies and Techniques in Porous Media Derek B. Ingham, Adrian Bejan, Eden Mamut, Ian Pop, 2012-12-06 Heat and fluid flow in fluid saturated porous media has become increasingly more attractive to researchers and thus it has become a very productive field for many researchers and practical engineers in very diverse range of fields

The great interest in the topic stems from its widespread number of different practical applications in modern industries and in many environmental issues such as nuclear waste management building thermal insulators geothermal power plants grain storage etc In building sciences and thermal insulation engineering an appreciable insulating effect has been derived by placing porous material in the gap between the cavity walls and multishield structures of nuclear reactors between the pressure vessel and the reactor Geophysical applications include modeling of the spread of pollutants e.g. radioactive material water movements in geothermal reservoirs enhanced recovery of petroleum reservoirs etc These and many other important practical applications have resulted in a rapid expansion of research in the general area of porous media and thus generated a vast amount of both theoretical and experimental research work It has attracted the attention of industrialists engineers and scientists from many varying disciplines such as applied mathematics chemical civil environmental mechanical and nuclear engineering geothermal physics food science medicine etc This book contains some of the contributions to the NATO Advanced Study Institute on Emerging Technologies and Techniques in Porous Media that was held in Neptun Olimp Constanta Black Sea Romania on 9-20 June 2003

**Principles of Heat Transfer in Porous Media** M. Kaviany, 2012-12-06

Although the empirical treatment of fluid flow and heat transfer in porous media is over a century old only in the last three decades has the transport in these heterogeneous systems been addressed in detail So far single phase flows in porous media have been treated or at least formulated satisfactorily while the subject of two phase flow and the related heat transfer in porous media is still in its infancy This book identifies the principles of transport in porous media and compares the available predictions based on theoretical treatments of various transport mechanisms with the existing experimental results The theoretical treatment is based on the volume averaging of the momentum and energy equations with the closure conditions necessary for obtaining solutions While emphasizing a basic understanding of heat transfer in porous media this book does not ignore the need for predictive tools whenever a rigorous theoretical treatment of a phenomena is not available semi empirical and empirical treatments are given

Porous Media Transport Phenomena Faruk Civan, 2011-07-18

The book that makes transport in porous media accessible to students and researchers alike Porous Media Transport Phenomena covers the general theories behind flow and transport in porous media a solid permeated by a network of pores filled with fluid which encompasses rocks biological tissues ceramics and much more Designed for use in graduate courses in various disciplines involving fluids in porous materials and as a reference for practitioners in the field the text includes exercises and practical applications while avoiding the complex math found in other books allowing the reader to focus on the central elements of the topic Covering general porous media applications including the effects of temperature and particle migration and placing an emphasis on energy resource development the book provides an overview of mass momentum and energy conservation equations and their applications in engineered and natural porous media for general applications Offering a multidisciplinary approach to transport in porous media material is presented in a uniform format with consistent SI units An indispensable

resource on an extremely wide and varied topic drawn from numerous engineering fields Porous Media Transport Phenomena includes a solutions manual for all exercises found in the book additional questions for study purposes and PowerPoint slides that follow the order of the text *Porous Media* Kambiz Vafai, 2010-08-24 Presenting state of the art research advancements Porous Media Applications in Biological Systems and Biotechnology explores innovative approaches to effectively apply existing porous media technologies to biomedical applications In each peer reviewed chapter world class scientists and engineers collaborate to address significant problems and d

**Tortuosity and Microstructure Effects in Porous Media** Lorenz Holzer, Philip Marmet, Mathias Fingerle, Andreas Wiegmann, Matthias Neumann, Volker Schmidt, 2023-07-31 This open access book presents a thorough look at tortuosity and microstructure effects in porous materials The book delivers a comprehensive review of the subject summarizing all key results in the field with respect to the underlying theories empirical data available in the literature modern methodologies and calculation approaches and quantitative relationships between microscopic and macroscopic properties It thoroughly discusses up to 20 different types of tortuosity and introduces a new classification scheme and nomenclature based on direct geometric tortuosities indirect physics based tortuosities and mixed tortuosities geometric and physics based The book also covers recent progress in 3D imaging and image modeling for studying novel aspects of tortuosity and associated transport properties in materials while providing a comprehensive list of available software packages for practitioners in the community This book is a must read for researchers and students in materials science and engineering interested in a deeper understanding of microstructure property relationships in porous materials For energy materials in particular such as lithium ion batteries tortuosity is a key microstructural parameter that can greatly impact long term material performance Thus the information laid out in this book will also greatly benefit researchers interested in computational modeling and design of next generation materials especially those for sustainability and energy applications

**Downstream Industrial Biotechnology** Michael C. Flickinger, 2013-03-12 DOWNSTREAM INDUSTRIAL BIOTECHNOLOGY An affordable easily accessible desk reference on biomanufacturing focused on downstream recovery and purification Advances in the fundamental knowledge surrounding biotechnology novel materials and advanced engineering approaches continue to be translated into bioprocesses that bring new products to market at a significantly faster pace than most other industries Industrial scale biotechnology and new manufacturing methods are revolutionizing medicine environmental monitoring and remediation consumer products food production agriculture and forestry and continue to be a major area of research The downstream stage in industrial biotechnology refers to recovery isolation and purification of the microbial products from cell debris processing medium and contaminating biomolecules from the upstream process into a finished product such as biopharmaceuticals and vaccines Downstream process design has the greatest impact on overall biomanufacturing cost because not only does the biochemistry of different products e g peptides proteins hormones antibiotics and complex antigens dictate different methods



for the isolation and purification of these products but contaminating byproducts can also reduce overall process yield and may have serious consequences on clinical safety and efficacy Therefore downstream separation scientists and engineers are continually seeking to eliminate or combine unit operations to minimize the number of process steps in order to maximize product recovery at a specified concentration and purity Based on Wiley s Encyclopedia of Industrial Biotechnology Bioprocess Bioseparation and Cell Technology this volume features fifty articles that provide information on down stream recovery of cells and protein capture process development and facility design equipment PAT in downstream processes downstream cGMP operations and regulatory compliance It covers Cell wall disruption and lysis Cell recovery by centrifugation and filtration Large scale protein chromatography Scale down of biopharmaceutical purification operations Lipopolysaccharide removal Porous media in biotechnology Equipment used in industrial protein purification Affinity chromatography Antibody purification monoclonal and polyclonal Protein aggregation precipitation and crystallization Freeze drying of biopharmaceuticals Biopharmaceutical facility design and validation Pharmaceutical bioburden testing Regulatory requirements Ideal for graduate and advanced undergraduate courses on biomanufacturing biochemical engineering biopharmaceutical facility design biochemistry industrial microbiology gene expression technology and cell culture technology Downstream Industrial Biotechnology is also a highly recommended resource for industry professionals and libraries

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