

# Heat transfer in porous media

- Heat transfer in porous media involves the movement of heat within materials containing voids, such as rocks or foam
- There are three primary modes of heat transfer: conduction, convection, and radiation
- In porous media, these processes often occur simultaneously and are influenced by the properties of both the solid matrix and the fluid in the pores
- Understanding this phenomenon is crucial in fields like geothermal energy, insulation technology, and chemical engineering

## Practical example: Nuclear reactors

- Heat transfer in porous materials is critical in nuclear reactors, particularly in the filtration and control of radioactive gases and fluids
- Porous materials in reactors help manage heat by allowing coolant fluids to pass through them, effectively reducing the reactor's temperature
- The nature of the porous structure facilitates a large surface area for heat exchange, enhancing the reactor's safety and efficiency
- This principle ensures that the reactor operates within safe thermal limits, preventing overheating and potential meltdowns



# **Heat And Mass Transfer In Porous Media**

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Research Office, Case Western Reserve  
University. Department of Fluid,  
Thermal and Aerospace Sciences**

## **Heat And Mass Transfer In Porous Media:**

Heat and Mass Transfer in Porous Media J.M.P.Q. Delgado,2011-10-08 This book Heat and Mass Transfer in Porous Media presents a set of new developments in the field of basic and applied research work on the physical and chemical aspects of heat and mass transfer phenomena in a porous medium domain as well as related material properties and their measurements The book contents include both theoretical and experimental developments providing a self contained major reference that is appealing to both the scientists and the engineers At the same time these topics will encounter of a variety of scientific and engineering disciplines such as chemical civil agricultural mechanical engineering etc The book is divided in several chapters that intend to be a short monograph in which the authors summarize the current state of knowledge for benefit of professionals

*Principles of Heat Transfer in Porous Media* Maasoud Kaviani,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

*Heat and Mass Transfer in Porous Media* Michel Quintard,Marija S. Todorović,1992 Recent developments in the theoretical and practical problems of porous media physics are reviewed in this volume The main emphasis is on the interdisciplinary nature of transport phenomena in porous media study State of the art reviews and descriptions of innovative research in progress are reported A broad spectrum of problems and techniques related to porous media physics is presented Fundamental questions currently under investigation provide a unifying theme in this volume helping the reader to understand the problems and research trends in the field The first part focuses on general problems and techniques Phenomenological aspects of averaging techniques the hierarchy of scales that are involved in real porous media and the related scaling problems of multiphase multicomponent transport phenomena are examined with the emphasis on providing the basic scientific background for a variety of applications Sometimes theory comes very close to applications and occasionally they diverge This timely treatise demonstrates that both is now the case in porous media physics This volume will prove an indispensable reference source for all those interested in resolving discrepancies through innovative research work and inspiring new advances in the field

**Convective Heat and Mass Transfer in Porous Media** Sadik Kakaç,Birol Kilis, Frank A.

Kulacki, Faruk Annc, 2012-12-06 The rapid growth of literature on convective heat and mass transfer through porous media has brought both engineering and fundamental knowledge to a new state of completeness and depth. Additionally, several new questions of fundamental merit have arisen in several areas which bear direct relation to further advancement of basic knowledge and applications in this field. For example, the growth of fundamental heat transfer data and correlations for engineering use for saturated media has now reached the point where the relations for heat transfer coefficients and flow parameters are known well enough for design purposes. Multiple flow field regimes in natural convection have been identified in several important enclosure geometries. New questions have arisen on the nature of equations being used in theoretical studies i.e. the Validity of Darcy assumption is being brought into question. Wall effects in high and low velocity flow fields have been found to play a role in predicting transport coefficients. The formulation of transport problems in fractured media are being investigated as both an extension of those in a homogeneous medium and for application in engineering systems in geologic media and problems on saturated media are being addressed to determine their proper formulation and solution. The long standing problem of how to adequately formulate and solve problems of multi phase heat and mass transfer in heterogeneous media is important in the technologies of chemical reactor engineering and enhanced oil recovery.

*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.

*Numerical Analysis of Heat and Mass Transfer in Porous Media* J.M.P.Q. Delgado, Antonio Gilson Barbosa Lima, Marta Vázquez da Silva, 2012-06-25 The purpose of Numerical Analysis of Heat and Mass Transfer in Porous Media is to provide a collection of recent contributions in the field of computational heat and mass transfer in porous media. The main benefit of the book is that it discusses the majority of the topics related to numerical transport phenomenon in engineering including state of the art and applications and presents some of the most important theoretical and computational developments in porous media and transport phenomenon domain providing a self contained major reference that is appealing to both the scientists researchers and the engineers. At the same time these topics encounter a variety of scientific and engineering disciplines such as chemical civil agricultural mechanical engineering etc. The book is divided in several chapters that intend to be a resume of the current state of knowledge for benefit of professional colleagues.

**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

Special Issue: Heat and Mass Transfer in Porous Media ,2015      **Handbook of Porous Media** Kambiz Vafai,2005-03-30

Over the last three decades advances in modeling flow heat and mass transfer through a porous medium have dramatically transformed engineering applications Comprehensive and cohesive Handbook of Porous Media Second Edition presents a compilation of research related to heat and mass transfer including the development of practical applications      **Heat and Mass Transfer in Porous Media** National Science Foundation. Engineering Division (Heat Transfer Program),National Science Foundation. Energy Related General Research Office,Case Western Reserve University. Department of Fluid, Thermal and Aerospace Sciences,      *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      **Heat and Mass Transfer in Drying of Porous Media** Peng Xu,Agus P. Sasmito,Arun S. Mujumdar,2019-07-16 Heat and Mass Transfer in Drying of Porous Media offers a comprehensive review of heat and mass transfer phenomena and mechanisms in drying of porous materials It covers pore scale and macro scale models includes various drying technologies and discusses the drying dynamics of fibrous porous material colloidal porous media and size distributed particle system Providing guidelines for mathematical modeling and design as well as optimization of drying of porous material this reference offers useful information for researchers and students as well as engineers in drying technology food processes applied energy mechanical and chemical engineering      *Heat and Mass Transfer in Porous Materials* Anatoliy Pavlenko,2023-10-13 Porous media play an important role in a wide range of scientific and engineering problems Therefore the problems of their application are associated with the solution of multiscale processes that combine the transfer of mass momentum and energy This Special Issue is devoted to the actual scientific problem of studying the processes of interconnected heat and mass transfer in porous media This problem is one of the most complex and important fundamental areas of modern science and is of great applied importance The results of heat and mass transfer studies in porous materials can be used to intensify heat transfer at various power plants in order to increase their energy efficiency The purpose of this Special Issue is to showcase the latest developments in PM heat transfer and mass transfer technologies that contribute to sustainable development Despite the fact that considerable attention has been paid to these

issues there is constant demand for innovative solutions to solve a wide range of problems in this area Therefore this Special Issue attempts to highlight and propose new solutions to these problems These works develop a basic understanding of the scientific problems of heat and mass transfer in porous materials Thematically it is possible to distinguish three areas covered by the studies within this Special Issue mass transfer in porous media methods for the formation of a porous medium and conjugate heat and mass transfer      **Simultaneous Heat and Mass Transfer in Porous Media** Walter Julius Riback,1968      **Two-dimensional Analysis of Heat and Mass Transfer in Porous Media Using the Strongly Implicit Procedure** Donald M. Curry,1974      *Combined Heat and Mass Transfer in Porous Media* Donald John Close,1971      Simultaneous Heat and Mass Transfer in Porous Media European Mechanics Committee,      Heat and Mass Transfer in Porous Media in Convective Or Microwave Heating Chenkou Wei,1984      **Multiphase Heat and Mass Transfer with Large Deformation in Porous Media** Jifeng Zhang,2003 The model is applied to several computing examples It is found that large deformation influences transport greatly in porous media through transport property and dimension changes so that transport and deformation should be modeled simultaneously      *Heat and Mass Transfer in Porous Media* Guodong Zhang,1992

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## Heat And Mass Transfer In Porous Media Introduction

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