

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



Principles Of Heat Transfer In Porous Media

Richard W. Johnson



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phenomena is not available semi empirical and empirical treatments are given

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Transport Phenomena in Porous Media II I. Pop,Derek B Ingham,2002-06-20 Transport phenomena in porous media continues to be a field which attracts intensive research activity This is primarily due to the fact that it plays an important and practical role in a large variety of diverse scientific applications Transport Phenomena in Porous Media II covers a wide range of the engineering and technological applications including both stable and unstable flows heat and mass transfer porosity and turbulence Transport Phenomena in Porous Media II is the second volume in a series emphasising the fundamentals and applications of research in porous media It contains 16 interrelated chapters of controversial and in some cases conflicting research over a wide range of topics The first volume of this series published in 1998 met with a very favourable reception Transport Phenomena in Porous Media II maintains the original concept including a wide and diverse range of topics whilst providing an up to date summary of recent research in the field by its leading practitioners

Handbook of Porous Media Kambiz Vafai,2000-07-12 Presents the most important and up to date research related to heat transfer in porous media focusing on practical applications of the latest studies to engineering products and procedures Includes theoretical models of fluid flow capillary effects application of fractal and percolation characterizing porous materials multiphase flow and heat transfer turbulent flow and heat transfer improved measurement and flow visualization techniques and enhanced design correlations

Principles of Convective Heat Transfer Massoud Kaviany,2013-11-21 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 Intended for graduate students and for researchers entering the field this text 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 and 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 transfers 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 The emphasis on the presence multiple phases and on energy conversion mechanisms such as phase changes or chemical reactions will make this text a valuable reference for practicing engineers This new edition has been updated throughout and contains new examples and problems

Turbulence in Porous Media Marcelo J.S. de Lemos,2012-06-25 Turbulence in Porous Media introduces the reader to the characterisation of turbulent flow heat and mass transfer in permeable media including analytical data and a review of available experimental data Such transport processes occurring a relatively high velocity in permeable media are present in a

number of engineering and natural flows This new edition features a completely updated text including two new chapters exploring Turbulent Combustion and Moving Porous Media De Lemos has expertly brought together a text that compiles details compares and evaluates available methodologies for modelling and simulating flow providing an essential tour for engineering students working within the field as well as those working in chemistry physics applied mathematics and geological and environmental sciences Brings together groundbreaking and complex research on turbulence in porous media Extends the original model to situations including reactive systems Now discusses movement of the porous matrix

Convection in Porous Media D.A. Nield, Adrian Bejan, 2006-02-23 Nonprofit organizations are suffering from the continuing economic downturn Donations are decreasing while demand for services is growing forcing these organizations to be increasingly efficient and effective with their funds This book introduces the reader to the basic concepts of project management It provides approaches and templates to help nonprofit managers quickly implement practices to help them manage their limited resources both financial and volunteer The book also provides a tool to help the project team determine which practices are most appropriate The book explores how social media and other technology tools can be used to assist in the management of time sensitive projects and shows how project portfolio management can be a tool to assist in communications with boards of directors and other governing entities The project portfolio is a tool that development office managers can easily implement and adopt to facilitate resource assignment Finally the book offers three case studies of nonprofit projects that went awry and shows how project management would have assisted

Heat Transfer Handbook Adrian Bejan, Allan D. Kraus, 2003-06-30 Chapters contributed by thirty world renown experts Covers all aspects of heat transfer including micro scale and heat transfer in electronic equipment An associated Web site offers computer formulations on thermophysical properties that provide the most up to date values

Handbook of Fluid Dynamics Richard W. Johnson, 2016-04-06 Handbook of Fluid Dynamics offers balanced coverage of the three traditional areas of fluid dynamics theoretical computational and experimental complete with valuable appendices presenting the mathematics of fluid dynamics tables of dimensionless numbers and tables of the properties of gases and vapors Each chapter introduces a different fluid dynamics topic discusses the pertinent issues outlines proven techniques for addressing those issues and supplies useful references for further research Covering all major aspects of classical and modern fluid dynamics this fully updated Second Edition Reflects the latest fluid dynamics research and engineering applications Includes new sections on emerging fields most notably micro and nanofluidics Surveys the range of numerical and computational methods used in fluid dynamics analysis and design Expands the scope of a number of contemporary topics by incorporating new experimental methods more numerical approaches and additional areas for the application of fluid dynamics Handbook of Fluid Dynamics Second Edition provides an indispensable resource for professionals entering the field of fluid dynamics The book also enables experts specialized in areas outside fluid dynamics to become familiar with the field

Essentials of Heat Transfer Massoud

Kaviani,2011-08 This is a modern example driven introductory textbook on heat transfer with modern applications written by a renowned scholar *Advances in Heat Transfer* ,2000-10-31 *Advances in Heat Transfer* is designed to fill the information gap between regularly scheduled journals and university level textbooks by providing in depth review articles over a broader scope than is allowable in either journals or texts *Heat Transfer in Polymer Composite Materials* Nicolas Boyard,2016-03-03 This book addresses general information good practices and examples about thermo physical properties thermo kinetic and thermo mechanical couplings instrumentation in thermal science thermal optimization and infrared radiation **Fundamentals of Multiphase Heat Transfer and Flow** Amir Faghri,Yuwen Zhang,2019-09-13 This textbook presents a modern treatment of fundamentals of heat and mass transfer in the context of all types of multiphase flows with possibility of phase changes among solid liquid and vapor It serves equally as a textbook for undergraduate senior and graduate students in a wide variety of engineering disciplines including mechanical engineering chemical engineering material science and engineering nuclear engineering biomedical engineering and environmental engineering Multiphase Heat Transfer and Flow can also be used to teach contemporary and novel applications of heat and mass transfer Concepts are reinforced with numerous examples and end of chapter problems A solutions manual and PowerPoint presentation are available to instructors While the book is designed for students it is also very useful for practicing engineers working in technical areas related to both macro and micro scale systems that emphasize multiphase multicomponent and non conventional geometries with coupled heat and mass transfer and phase change with the possibility of full numerical simulation *Heat Transfer Enhancement with Nanofluids* Vincenzo Bianco,Oronzio Manca,Sergio Nardini,Kambiz Vafai,2015-04-01 Nanofluids are gaining the attention of scientists and researchers around the world This new category of heat transfer medium improves the thermal conductivity of fluid by suspending small solid particles within it and offers the possibility of increased heat transfer in a variety of applications Bringing together expert contributions from *Handbook Of Porous Materials: Synthesis, Properties, Modeling And Key Applications (In 4 Volumes)* ,2020-10-20 This four volume handbook gives a state of the art overview of porous materials from synthesis and characterization and simulation all the way to manufacturing and industrial applications The editors coming from academia and industry are known for their didactic skills as well as their technical expertise Coordinating the efforts of 37 expert authors in 14 chapters they construct the story of porous carbons ceramics zeolites and polymers from varied viewpoints surface and colloidal science materials science chemical engineering and energy engineering Volumes 1 and 2 cover the fundamentals of preparation characterisation and simulation of porous materials Working from the fundamentals all the way to the practicalities of industrial production processes the subjects include hierarchical materials in situ and operando characterisation using NMR X Ray scattering and tomography state of the art molecular simulations of adsorption and diffusion in crystalline nanoporous materials as well as the emerging areas of bio artificing and drug delivery Volume 3 focuses on porous materials in industrial separation

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