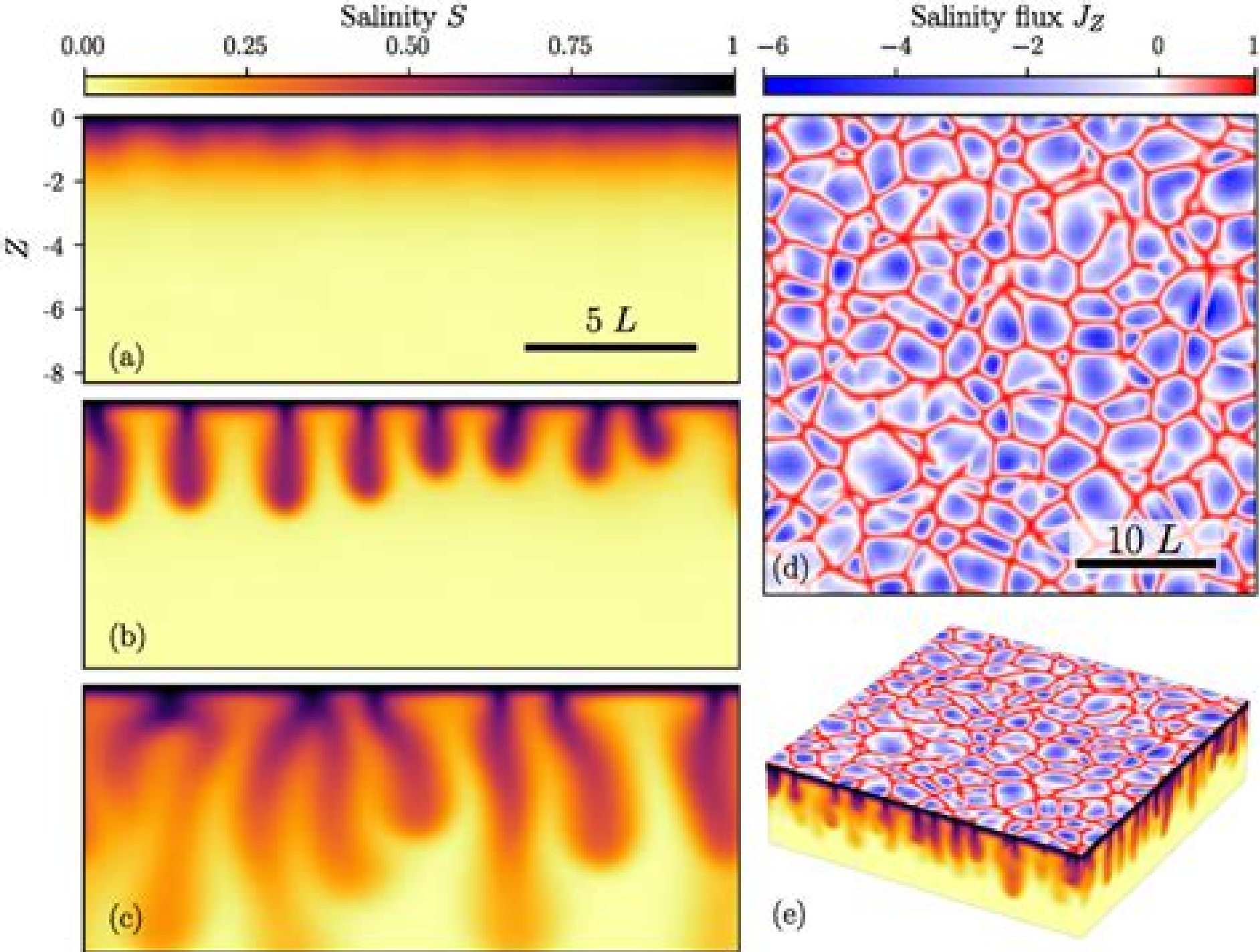




Convection In Porous Media

Kambiz Vafai



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

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

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

Modeling Approaches to Natural Convection in Porous Media Yan Su, Jane H. Davidson, 2015 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

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

Emerging Technologies and Techniques in Porous Media, 2004

Transport Phenomena in Porous Media III Derek B Ingham, Ioan Pop, 2005-07-29 Fluid and flow problems in porous media have attracted the attention of industrialists engineers and scientists from varying disciplines such as chemical environmental and mechanical engineering geothermal physics and food science There has been an increasing interest in heat and fluid flows through porous media making this book a timely and appropriate resource Each chapter is systematically detailed to be easily grasped by a research worker with basic knowledge of fluid mechanics heat transfer and computational and experimental methods At the same time the readers will be informed of the most recent research literature in the field giving it dual usage as both a post grad text book and professional reference Written by the recent directors of the NATO Advanced Study Institute session on Emerging Technologies and Techniques in Porous Media June 2003 this book is a timely and essential reference for scientists and engineers within a variety of fields

Principles of Heat Transfer in Porous 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

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

Free and Mixed Convection in Porous Media Feng-Chyuan Lai, 1988

Natural Convection in Porous Media with Coupled Mass Transfer J. C. Sheridan, A. Williams, D. J. Close, Commonwealth Scientific and Industrial Research Organization (Australia). Division of Energy Technology, 1987

Handbook of Porous Media, Second Edition 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 for analysis and design of engineering devices and systems involving porous media See what's new in the Second Edition Recent studies related to current and future challenges and developments in fundamental aspects of porous media Combustion and heat transfer in inert porous media Modeling bioconvection in porous media Influence of vibrations on the onset of the thermo convection Modeling porous media impairment by particles Modeling liquid composites molding processes Parameter identification within a porous medium using genetic algorithms Viscous dissipation Forced and double diffusive convection in porous media Turbulent flow Dispersion Particle migration and deposition in porous media Dynamic modeling of convective transport through porous media Completely revised updated and reviewed by experts in the field each chapter includes whenever applicable a discussion of the pertinent aspects of experimental work or numerical techniques Generously illustrated with 262 black and white illustrations 15 tables and 1 865 equations the book is a rigorous and thorough working reference

An Experimental Investigation of Natural Convection in Porous Media Takeshi Kaneko, 1972

Natural Convection in Porous Media and Its Relevance to in Situ Combustion Subodh Chandra Gupta, 1991

Transfer Mechanisms

Governing Natural Convection in Porous Media with Coupled Mass Transfer J. Sheridan, D. J. Close, Commonwealth Scientific and Industrial Research Organization (Australia). Division of Energy Technology, 1987 This paper presents a detailed model of natural convection in horizontal porous media when the surfaces of the packing material are wet and the voids are saturated with vapour and a second non condensing gas From the model system parameters are obtained and the influence of some are determined from an analysis of previously published experimental data Neglecting geometric parameters since they were not varied in the experiments those which affected the Nusselt number were the Rayleigh number based on fluid heat transfer properties the ratio of temperature to concentration driven buoyancies and the ratio of the potential for latent relative to sensible heat transfer Since the Prandtl and Lewis numbers which relate to heat and mass transfer between fluid and solid were not significant it appears that the influence of these effects is much less pronounced than in the case of heat transfer alone in a similar system While this is attributed in part to the manner in which the experiments were performed it is also to be expected when mass transfer forms a large component of the total heat transfer

On the Interface Dynamics for Convection in Porous Media University of Minnesota. Institute for Mathematics and Its Applications, T. Dombre, A. Pumir, E. D. Siggia, 1991 Convection in Porous Media and Legendre, Chebyshev Galerkin Methods, 2005 **Non-Darcian and Nonuniform Porosity Effects on Natural Convection in Porous Media** Jin-Tsing Hong, 1986 A Numerical Investigation of Natural Convection in Porous Media Yuk-Tong Chan, McMaster University. Department of Engineering Physics, 1980

Convection In Porous Media Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Convection In Porous Media**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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