

THEORY AND APPLICATIONS OF TRANSPORT IN POROUS MEDIA

**Recent Advances
in Problems
of Flow
and Transport
in Porous Media**

**J. M. Crolet and
M. El Hatri (Eds.)**

Recent Advances In Problems Of Flow And Transport In Porous Media

W. Brent Lindquist



Recent Advances In Problems Of Flow And Transport In Porous Media:

Recent Advances in Problems of Flow and Transport in Porous Media J.M. Crolet, M. El Hatri, 2013-06-29 Porous media and especially phenomena of transport in such materials are an important field of interest for geologists hydrogeologists researchers in soil and fluid mechanics petroleum and chemical engineers physicists and scientists in many other disciplines The development of better numerical simulation techniques in combination with the enormous expansion of computer tools have enabled numerical simulation of transport phenomena mass of phases and components energy etc in porous domains of interest Before any practical application of the results of such simulations can be used it is essential that the simulation models have been proven to be valid In order to establish the greatest possible coherence between the models and the physical reality frequent interaction between numericians mathematicians and the previously quoted researchers is necessary Once this coherence is established the numerical simulations could be used to predict various phenomena such as water management propagation of pollutants etc These simulations could be in many cases the only financially acceptable tool to carry out an investigation Current studies within various fields of applications include not only physical comprehension aspects of flow and energy or solute transport in saturated or unsaturated media but also numerical aspects in deriving strong complex equations Among the various fields of applications generally two types of problems can be observed Those associated with the pollution of the environment and those linked to water management The former are essentially a problem in industrialized countries the latter are a major source of concern in North Africa

Computational Methods for Flow and Transport in Porous Media J.M. Crolet, 2013-03-14 The first Symposium on Recent Advances in Problems of Flow and Transport in Porous Media was held in Marrakech in June 96 and has provided a focus for the utilization of computer methods for solving the many complex problems encountered in the field of solute transport in porous media This symposium has been successful in bringing together scientists physicists hydrogeologists researchers in soil and fluid mechanics and engineers involved in this multidisciplinary subject It is clear that the utilization of computer based models in this domain is still rapidly expanding and that new and novel solutions are being developed The contributed papers which form this book reflect the recent advances in particular with respect to new methods inverse problems reactive transport unsaturated media and upscaling These have been subdivided into the following sections I Numerical methods II Mass transport and heat transfer III Comparison with experimentation and simulation of real cases This book contains reviewed articles of the top presentations held during the International Symposium on Computer Methods in Porous Media Engineering which took place in Giens France in October 1998 All of the presentations and the optimism shown during the meeting provided further evidence that computer modeling is making remarkable progress and is indeed becoming an essential toolkit in the field of porous media and solute transport I believe that the content of this book provides evidence of this and furthermore gives a comprehensive review of the theoretical developments and applications

Upscaling

Multiphase Flow in Porous Media D.B. Das,S.M. Hassanizadeh,2005-12-05 This book provides concise up to date and easy to follow information on certain aspects of an ever important research area multiphase flow in porous media This flow type is of great significance in many petroleum and environmental engineering problems such as in secondary and tertiary oil recovery subsurface remediation and CO2 sequestration This book contains a collection of selected papers all refereed from a number of well known experts on multiphase flow The papers describe both recent and state of the art modeling and experimental techniques for study of multiphase flow phenomena in porous media Specifically the book analyses three advanced topics upscaling pore scale modeling and dynamic effects in multiphase flow in porous media This will be an invaluable reference for the development of new theories and computer based modeling techniques for solving realistic multiphase flow problems Part of this book has already been published in a journal Audience This book will be of interest to academics researchers and consultants working in the area of flow in porous media

Recent Advances in Adaptive Computation Zhongci Shi,2005 There has been rapid development in the area of adaptive computation over the past decade The International Conference on Recent Advances in Adaptive Computation was held at Zhejiang University Hangzhou China to explore these new directions The conference brought together specialists to discuss modern theories and practical applications of adaptive methods This volume contains articles reflecting the invited talks given by leading mathematicians at the conference It is suitable for graduate students and researchers interested in methods of computation

Challenges and Recent Advances in Sustainable Oil and Gas Recovery and Transportation Sanket Joshi,Prashant Jadhawar,Asheesh Kumar,2023-03-10 Challenges and Recent Advances in Sustainable Oil and Gas Recovery and Transportation delivers a critical tool for today s petroleum and reservoir engineers to learn the latest research in EOR and solutions toward more SDG supported practices Packed with methods and case studies the reference starts with the latest advances such as EOR with polymers and EOR with CCS Advances in shale recovery and methane production are also covered before layering on sustainability methods on critical topics such as oilfield produced water Supported by a diverse group of contributors this book gives engineers a go to source for the future of oil and gas The oil and gas industry are utilizing enhanced oil recovery EOR methods frequently but the industry is also tasked with making more sustainable decisions in their future operations Provides the latest advances in enhanced oil recovery EOR including EOR with polymers EOR with carbon capture and sequestration CCS and hybrid EOR approaches Teaches options in recovery and transport such as shale recovery and methane production from gas hydrate reservoirs Includes sustainability methods such as biological souring and oil field produced water solutions

The Handbook of Groundwater Engineering John H. Cushman,Daniel M. Tartakovsky,2016-11-25 This new edition adds several new chapters and is thoroughly updated to include data on new topics such as hydraulic fracturing CO2 sequestration sustainable groundwater management and more Providing a complete treatment of the theory and practice of groundwater engineering this new handbook also presents a current and detailed review of how to model the flow of water and the transport of contaminants

both in the unsaturated and saturated zones covers the protection of groundwater and the remediation of contaminated groundwater

Mathematical Reviews, 2003 *Flow and Transport Properties of Unconventional Reservoirs* 2018
 Jianchao Cai, Zhien Zhang, Qinjun Kang, Harpreet Singh, 2019-07-23 Unconventional reservoirs are usually complex and highly heterogeneous such as shale coal and tight sandstone reservoirs The strong physical and chemical interactions between fluids and pore surfaces lead to the inapplicability of conventional approaches for characterizing fluid flow in these low porosity and ultralow permeability reservoir systems Therefore new theories and techniques are urgently needed to characterize petrophysical properties fluid transport and their relationships at multiple scales for improving production efficiency from unconventional reservoirs This book presents fundamental innovations gathered from 21 recent works on novel applications of new techniques and theories in unconventional reservoirs covering the fields of petrophysical characterization hydraulic fracturing fluid transport physics enhanced oil recovery and geothermal energy Clearly the research covered in this book is helpful to understand and master the latest techniques and theories for unconventional reservoirs which have important practical significance for the economic and effective development of unconventional oil and gas resources

Recent Advances in the Modeling of Hydrologic Systems D.S Bowles, P. Enda O'Connell, 2012-12-06
 Modeling of the rainfall runoff process is of both scientific and practical significance Many of the currently used mathematical models of hydrologic systems were developed a generation ago Much of the effort since then has focused on refining these models rather than on developing new models based on improved scientific understanding In the past few years however a renewed effort has been made to improve both our fundamental understanding of hydrologic processes and to exploit technological advances in computing and remote sensing It is against this background that the NATO Advanced Study Institute on Recent Advances in the Modeling of Hydrologic Systems was organized The idea for holding a NATO ASI on this topic grew out of an informal discussion between one of the co directors and Professor Francisco Nunes Correia at a previous NATO ASI held at Tucson Arizona in 1985 The Special Program Panel on Global Transport Mechanisms in the Geo Sciences of the NATO Scientific Affairs Division agreed to sponsor the ASI and an organizing committee was formed The committee comprised the co directors Professor David S Bowles U S A and Professor P Enda O Connell U K and Professor Francisco Nunes Correia Portugal Dr Donn G DeCoursey U S A and Professor Ezio Todini Italy

Site Characterization Progress Report, 1992 Handbook of Geomathematics Willi Freeden, M. Zuhair Nashed, Thomas Sonar, 2010-08-13 During the last three decades geosciences and geo engineering were influenced by two essential scenarios First the technological progress has changed completely the observational and measurement techniques Modern high speed computers and satellite based techniques are entering more and more all geodisciplines Second there is a growing public concern about the future of our planet its climate its environment and about an expected shortage of natural resources Obviously both aspects viz efficient strategies of protection against threats of a changing Earth and the exceptional situation of getting terrestrial

airborne as well as spaceborne data of better and better quality explain the strong need of new mathematical structures tools and methods Mathematics concerned with geoscientific problems i e Geomathematics is becoming increasingly important The Handbook Geomathematics as a central reference work in this area comprises the following scientific fields I observational and measurement key technologies II modelling of the system Earth geosphere cryosphere hydrosphere atmosphere biosphere III analytic algebraic and operator theoretic methods IV statistical and stochastic methods V computational and numerical analysis methods VI historical background and future perspectives *Current Progress in Hyperbolic Systems: Riemann Problems and Computations* W. Brent Lindquist,1989 Contains the proceedings of the AMS IMS SIAM Joint Summer Research Conference on Current Progress in Hyperbolic Systems Riemann Problems and Computations held at Bowdoin College in July 1988 **Groundwater Assessment, Modeling, and Management** M. Thangarajan,Vijay P. Singh,2016-09-15 Your Guide to Effective Groundwater Management Groundwater Assessment Modeling and Management discusses a variety of groundwater problems and outlines the solutions needed to sustain surface and ground water resources on a global scale Contributors from around the world lend their expertise and provide an international perspective on groundwater management They address the management of groundwater resources and pollution waste water treatment methods and the impact of climate change on groundwater and water availability specifically in arid and semi arid regions such as India and Africa Incorporating management with science and modeling the book covers all areas of groundwater resource assessment modeling and management and combines hands on applications with relevant theory For Water Resource Managers and Decision Makers The book describes techniques for the assessment of groundwater potential pollution prevention and remedial measures and includes a new approach for groundwater modeling based on connections network theory Approximately 30 case studies and six hypothetical studies are introduced reflecting a range of themes that include groundwater basics and the derivation of groundwater flow equations exploration and assessment aquifer parameterization augmentation of aquifer water and environment water and agriculture the role of models and their application and water management policies and issues The book describes remote sensing RS applications geographical information systems GIS and electrical resistivity methods to delineate groundwater potential zones It also takes a look at Inverse modeling pilot points method Simulation optimization models Radionuclide migration studies through mass transport modeling Modeling for mapping groundwater potential Modeling for vertical 2 D and 3 D groundwater flow Groundwater Assessment Modeling and Management explores the management of water resources and the impact of climate change on groundwater Expert contributors provide practical information on hydrologic engineering and groundwater resources management for students researchers scientists and other practicing professionals in environmental engineering hydrogeology irrigation geophysics and environmental science **Geothermal Energy Update** ,1976 **Encyclopedia of Agricultural, Food, and Biological Engineering** Dennis R. Heldman,Carmen I. Moraru,2010-10-21 Examining the role of

engineering in delivery of quality consumer products this expansive resource covers the development and design of procedures equipment and systems utilized in the production and conversion of raw materials into food and nonfood consumer goods With nearly 2000 photographs figures tables and equations including 128 color figures the book emphasizes and illustrates the various engineering processes associated with the production of materials with agricultural origin With contributions from more than 350 experts and featuring more than 200 entries and 3600 references this is the largest and most comprehensive guide on raw production technology **Applied Mechanics Reviews** ,1966 Environmental Health Perspectives ,1990 **Advanced methods of mathematical modeling and experimental study in oil and gas reservoirs** Fuyong Wang,Bassem Nabawy,Evgeny Burnaev,Xiukun Wang,Debin Kong,2023-07-05 *Computer Methods and Advances in Geomechanics* Chandra S. Desai,2001 *Multi-scale Phenomena in Complex Fluids* Thomas Y. Hou,2009 Multi Scale Phenomena in Complex Fluids is a collection of lecture notes delivered during the rst two series of mini courses from Shanghai Summer School on Analysis and Numerics in Modern Sciences which was held in 2004 and 2006 at Fudan University Shanghai China This review volume of 5 chapters covering various fields in complex fluids places emphasis on multi scale modeling analyses and simulations It will be of special interest to researchers and graduate students who want to work in the field of complex fluids

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