

# fundamentals of numerical reservoir simulation

DONALD W. PEACEMAN



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# **Fundamentals Of Numerical Reservoir Simulation**

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## **Fundamentals Of Numerical Reservoir Simulation:**

Fundamentals of Numerical Reservoir Simulation D. W. Peaceman, 1977      *Fundamentals of Numerical Reservoir Simulation* Donald W. Peaceman, 1977      **Fundamentals of Numerical Reservoir Simulation** D.W. Peaceman, 2000-04-01

The use of numerical reservoir simulation with high speed electronic computers has gained wide acceptance throughout the petroleum industry for making engineering studies of a wide variety of oil and gas reservoirs throughout the world. These reservoir simulators have been designed for use by reservoir engineers who possess little or no background in the numerical mathematics upon which they are based. In spite of the efforts to improve numerical methods to make reservoir simulators as reliable, efficient and automatic as possible, the user of a simulator is faced with a myriad of decisions that have nothing to do with the problem to be solved. This book combines a review of some basic reservoir mechanics with the derivation of the differential equations that reservoir simulators are designed to solve.

**An Introduction to Reservoir Simulation Using MATLAB/GNU Octave** Knut-Andreas Lie, 2019-08-08. Presents numerical methods for reservoir simulation with efficient implementation and examples using widely used online open source code for researchers, professionals and advanced students. This title is also available as Open Access on Cambridge Core.

**The Mathematics of Reservoir Simulation** Richard E. Ewing, 2014-12-01. This book describes the state of the art of the mathematical theory and numerical analysis of imaging. Some of the applications covered in the book include computerized tomography, magnetic resonance imaging, emission tomography, electron microscopy, ultrasound, transmission tomography, industrial tomography, seismic tomography, impedance tomography and NIR imaging.

**Principles of Applied Reservoir Simulation** John R. Fanchi, 2005-12-08. Simulate reservoirs effectively to extract the maximum oil, gas and profit with this book and free simulation software on companion web site.

**Computational Methods for Multiphase Flows in Porous Media** Zhangxin Chen, Guanren Huan, Yuanle Ma, 2006-01-01. Computational Methods for Multiphase Flows in Porous Media offers a fundamental and practical introduction to the use of computational methods, particularly finite element methods, in the simulation of fluid flows in porous media. It is the first book to cover a wide variety of flows, including single phase, two phase, black oil, volatile compositional, nonisothermal and chemical compositional flows, in both ordinary porous and fractured porous media. In addition, a range of computational methods are used and benchmark problems of nine comparative solution projects organized by the Society of Petroleum Engineers are presented for the first time in book form. The book reviews multiphase flow equations and computational methods to introduce basic terminologies and notation. A thorough discussion of practical aspects of the subjects is presented in a consistent manner and the level of treatment is rigorous without being unnecessarily abstract. Audience: this book can be used as a textbook for graduate or advanced undergraduate students in geology, petroleum engineering and applied mathematics; as a reference book for professionals in these fields; as well as scientists working in the area of petroleum reservoir simulation; as a handbook for employees in the oil industry who need a basic

understanding of modeling and computational method concepts and by researchers in hydrology environmental remediation and some areas of biological tissue modeling Calculus physics and some acquaintance with partial differential equations and simple matrix algebra are necessary prerequisites

**A Systems Description of Flow Through Porous Media** Jan Dirk Jansen, 2013-05-23 This text forms part of material taught during a course in advanced reservoir simulation at Delft University of Technology over the past 10 years The contents have also been presented at various short courses for industrial and academic researchers interested in background knowledge needed to perform research in the area of closed loop reservoir management also known as smart fields related to e g model based production optimization data assimilation or history matching model reduction or upscaling techniques Each of these topics has connections to system theoretical concepts The introductory part of the course i e the systems description of flow through porous media forms the topic of this brief monograph The main objective is to present the classic reservoir simulation equations in a notation that facilitates the use of concepts from the systems and control literature Although the theory is limited to the relatively simple situation of horizontal two phase oil water flow it covers several typical aspects of porous media flow The first chapter gives a brief review of the basic equations to represent single phase and two phase flow It discusses the governing partial differential equations their physical interpretation spatial discretization with finite differences and the treatment of wells It contains well known theory and is primarily meant to form a basis for the next chapter where the equations will be reformulated in terms of systems and control notation The second chapter develops representations in state space notation of the porous media flow equations The systematic use of matrix partitioning to describe the different types of inputs leads to a description in terms of nonlinear ordinary differential and algebraic equations with state dependent system input output and direct throughput matrices Other topics include generalized state space representations linearization elimination of prescribed pressures the tracing of stream lines lift tables computational aspects and the derivation of an energy balance for porous media flow The third chapter first treats the analytical solution of linear systems of ordinary differential equations for single phase flow Next it moves on to the numerical solution of the two phase flow equations covering various aspects like implicit explicit or mixed IMPES time discretizations and associated stability issues Newton Raphson iteration streamline simulation automatic time stepping and other computational aspects The chapter concludes with simple numerical examples to illustrate these and other aspects such as mobility effects well constraint switching time stepping statistics and system energy accounting The contents of this brief should be of value to students and researchers interested in the application of systems and control concepts to oil and gas reservoir simulation and other applications of subsurface flow simulation such as CO<sub>2</sub> storage geothermal energy or groundwater remediation

**Applications on Advanced Architecture Computers** Greg Astfalk, 1996-01-01 This volume conveniently brings together updated versions of 30 articles that originally appeared in SIAM News from 1990 to 1995 The objective of the column from which the articles are taken is to present applications that have

been successfully treated on advanced architecture computers Astfalk edits this popular series of articles in SIAM s flagship publication SIAM News Algorithmic issues addressed are those which have found general use in building parallel codes for solving problems In addition to updates that reflect advances and changes in the field of applications on advanced architecture computers Astfalk has added an index and introductory comments to each article making this book cohesive and interesting to practitioners and researchers alike

*Computational Science — ICCS 2003* Peter M.A. Sloot,David Abramson,Alexander V. Bogdanov,Jack J. Dongarra,Albert Y. Zomaya,Yuriy E. Gorbachev,2003-08-03 The four volume set LNCS 2657 LNCS 2658 LNCS 2659 and LNCS 2660 constitutes the refereed proceedings of the Third International Conference on Computational Science ICCS 2003 held concurrently in Melbourne Australia and in St Petersburg Russia in June 2003 The four volumes present more than 460 reviewed contributed and invited papers and span the whole range of computational science from foundational issues in computer science and algorithmic mathematics to advanced applications in virtually all application fields making use of computational techniques These proceedings give a unique account of recent results in the field

*Environmental Studies* Mary F. Wheeler,2012-12-06 Environmental protection has become a universal issue with world wide support Environmental studies have now bridged the realms of academic research and societal applications Mathematical modeling and large scale data collection and analysis lie at the core of all environmental studies Unfortunately scientists mathematicians and engineers immersed in developing and applying environmental models computational methods statistical techniques and computational hardware advance with separate and often discordant paces The volume is based on recent research designed to provide a much needed interdisciplinary forum for joint exploration of recent advances in this field

**Asphaltenes and Asphalts, 2** T.F. Yen,G.V. Chilingarian,2000-08-16 This is the second volume in the series of Asphaltenes and Asphalts Since the publication of the first volume in 1994 there has been a significant advancement in our knowledge Knowledge of both asphaltenes and asphalts is needed by several disciplines and often the progress is dictated by interdisciplinary sciences and technology This includes material sciences fuel sciences chemical engineering civil engineering environmental engineering polymer sciences transportation engineering petroleum engineering chemistry geological sciences physics geochemistry rheology biological sciences tribology soil sciences petroleum science The development in this field is not based on our knowledge of chemistry or petroleum engineering alone as many chemists and petroleum engineers believe In this volume therefore significant contributions from different disciplines have been included

**Trends in Differential Equations and Applications** Francisco Ortegón Gallego,María Victoria Redondo Neble,José Rafael Rodríguez Galván,2016-06-09 This work collects the most important results presented at the Congress on Differential Equations and Applications Congress on Applied Mathematics CEDYA CMA in C diz Spain in 2015 It supports further research in differential equations numerical analysis mechanics control and optimization In particular it helps readers gain an overview of specific problems of interest in the current mathematical research related to

different branches of applied mathematics This includes the analysis of nonlinear partial differential equations exact solutions techniques for ordinary differential equations numerical analysis and numerical simulation of some models arising in experimental sciences and engineering control and optimization and also trending topics on numerical linear Algebra dynamical systems and applied mathematics for Industry This volume is mainly addressed to any researcher interested in the applications of mathematics especially in any subject mentioned above It may be also useful to PhD students in applied mathematics engineering or experimental sciences

Finite Element Methods and Their Applications Zhangxin Chen, 2005-06-23 Introduce every concept in the simplest setting and to maintain a level of treatment that is as rigorous as possible without being unnecessarily abstract Contains unique recent developments of various finite elements such as nonconforming mixed discontinuous characteristic and adaptive finite elements along with their applications Describes unique recent applications of finite element methods to important fields such as multiphase flows in porous media and semiconductor modelling Treats the three major types of partial differential equations i e elliptic parabolic and hyperbolic equations

**The Mathematics of Finite Elements and Applications X (MAFELAP 1999)** J.R. Whiteman, 2000-06-26 The tenth conference on The Mathematics of Finite Elements and Applications MAFELAP 1999 was held at Brunel University during the period 22-25 June 1999 This book seeks to highlight certain aspects of the state of the art theory and applications of finite element methods of that time This latest conference in the MAFELAP series followed the well established MAFELAP pattern of bringing together mathematicians engineers and others interested in the field to discuss finite element techniques In the MAFELAP context finite elements have always been interpreted in a broad and inclusive manner including techniques such as finite difference finite volume and boundary element methods as well as actual finite element methods Twenty six papers were carefully selected for this book out of the 180 presentations made at the conference and all of these reflect this style and approach to finite elements The increasing importance of modelling in addition to numerical discretization error estimation and adaptivity was also studied in MAFELAP 1999

*Advances in Transport Phenomena in Porous Media* Jacob Bear, M.Y. Corapcioglu, 2012-12-06 This volume contains the lectures presented at the NATO ADVANCED STUDY INSTITUTE that took place at Newark Delaware U S A July 14-23 1985 The objective of this meeting was to present and discuss selected topics associated with transport phenomena in porous media By their very nature porous media and phenomena of transport of extensive quantities that take place in them are very complex The solid matrix may be rigid or deformable elastically or following some other constitutive relation the void space may be occupied by one or more fluid phases Each fluid phase may be composed of more than one component with the various components capable of interacting among themselves and or with the solid matrix The transport process may be isothermal or non isothermal with or without phase changes Porous medium domains in which extensive quantities such as mass of a fluid phase component of a fluid phase or heat of the porous medium as a whole are being transported occur in the practice in a variety of disciplines

Application of Optimal Control Theory to

Enhanced Oil Recovery W. Fred Ramirez, 1987-01-01 In recent years enhanced oil recovery techniques have received much attention in the oil industry Enhanced oil recovery methods can be divided into three major categories thermal processes which include steam flooding steam stimulation and in situ combustion chemical processes which include surfactant polymer injection polymer flooding and caustic flooding and miscible displacement processes which include miscible hydrocarbon displacement carbon dioxide injection of large amounts of rather expensive fluids into oil bearing reservoir formations Commercial application of any enhanced oil recovery process relies upon economic projections that show a decent return on the investment Because of high chemical costs it is important to optimize enhanced oil recovery processes to provide the greatest recovery at the lowest chemical injection cost The aim of this book is to develop an optimal control theory for the determination of operating strategies that maximize the economic attractiveness of enhanced oil recovery processes The determination of optimal control histories or operating strategies is one of the key elements in the successful usage of new enhanced oil recovery techniques The information contained in the book will therefore be both interesting and useful to all those working in petroleum engineering petroleum management and chemical engineering     Microbial Enhanced Oil Recovery E.C. Donaldson, G.V. Chilingarian, T.F. Yen, 1989-02-01 The use of microorganisms and their metabolic products to stimulate oil production is currently receiving renewed interest worldwide This technique involves the injection of selected microorganisms into the reservoir and the subsequent stimulation and transportation of their in situ growth products in order that their presence will aid in further reduction of residual oil left in the reservoir after secondary recovery is exhausted Although unlikely to replace conventional microbial enhanced oil recovery this unique process seems superior in many respects Self duplicating units namely the bacteria cells are injected into the reservoir and by their in situ multiplication they magnify beneficial effects This new approach to enhancement of oil recovery was initiated in 1980 and the first results were published in the proceedings of two international conferences This book evolved from these conferences and was designed to encompass all current aspects of microbial enhanced oil recovery the development of specific cultures increase of the population for field application various methods for field applications and the results and the environmental concerns associated with this newly developed technology It provides a comprehensive treatise of the subject and is arranged to show the laboratory development of microbes suited to microbial enhanced oil recovery and the perpetuation of the special cultures in a petroleum reservoir Thus this book has specific usefulness in the laboratory the oilfield and the classroom Although not written as a text book it can be used as a reference volume for graduate studies in enhanced oil recovery

**Surface Operations in Petroleum Production, I** G.V. Chilingarian, J.O. Robertson, S. Kumar, 1987-07-01 This is the first part of a two volume work which comes at a time when oil producers are taking a close look at the economy of oilfield operation and redesign of production technology to improve ultimate recovery The very high cost and risk of the search for new oilfields demands the re evaluation of production technology and reservoir engineering to improve the production

characteristics of existing oilfields It is the aim of this work that it will be instrumental in the improvement of the global enhancement of oil production and ultimate recovery It is the outcome of extensive collaboration between experts in petroleum who have devoted their time to the lucid expression of the knowledge that they have acquired through experience in the evaluation and solution of field problems and development of economic field processes Oil production companies have been generous in their cooperation through assistance and encouragement to the authors and permission to publish data designs and photographs Together the two books provide a detailed and comprehensive coverage of the subject The physical and chemical properties of the fluids encountered by engineers in the field are clearly described The properties methods of separation measurement and transportation of these fluids gases condensate liquids derived from natural gas crude oils and oilfield waters are dealt with Following a presentation of the fluids and their process technology a series of chapters give a thorough discussion of every type of surface equipment that is encountered in the myriad aspects of oilfield operations ranging from waterflooding to new enhanced oil recovery techniques Included are all methods for pumping water control production logging and corrosion control The coverage also extends to well completion and work over operations methods for design and operation of underground gas storage and a review of offshore technology Surface Operations in Petroleum Production is therefore a comprehensive reference which will be invaluable for field production managers and engineers as well as being an ideal text on production technology to complement the study of reservoir engineering

**Enhanced Oil Recovery, II** E.C. Donaldson, G.V. Chilingarian, T.F. Yen, 1989-07-01 Written by foremost experts in the field and formulated with attention to classroom use for advanced studies in reservoir characterization and processes this book reviews and summarises state of the art progress in the field of enhanced oil recovery EOR All of the available techniques alkaline flooding surfactant flooding carbon dioxide flooding steam flooding in situ combustion gas injection miscible flooding microbial recovery and polymer flooding are discussed and compared Together with Volume I it presents a complete text on enhanced recovery technology and hence is an almost indispensable reference text This second volume compliments the first by presenting as complete an analysis as possible of current oilfield theory and technology for accomplishment of maximum production of oil Many different processes have been developed and field tested for enhancement of oil recovery The emerging philosophy is that no single process is applicable to all petroleum reservoirs Each must be treated as unique and carefully evaluated for characteristics that are amenable to one or two of the proven technologies of EOR This book will aid the engineer in field evaluation and selection of the best EOR technology for a given oilfield Even the emerging technology of microbial applications to enhance oil recovery are reviewed and explained in terms that are easily understood by field engineers The book is presented in a manner suitable for graduate studies The only addition required of teachers is to supply example problems for class work An appendix includes a reservoir mathematic model and program for general application that can also be used for teaching



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