

1. Record Nr.	UNISA996262839403316
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Titolo	Petroleum reservoir simulation : a basic approach / / Jamal H. Abou-Kassem, S.M. Farouq Ali, M. Rafiq Islam
Pubbl/distr/stampa	Houston, TX : , : Gulf Pub. Co., , [2006] ©2006
ISBN	0-12-799974-4 1-60119-100-6
Descrizione fisica	1 online resource (480 p.)
Altri autori (Persone)	Farouq AliS. M <1936-> (Syed Mohammad) IslamRafiqul <1959->
Disciplina	550
Soggetti	Petroleum - Geology - Simulation methods Petroleum - Geology - Mathematical models Hydrocarbon reservoirs - Simulation methods Hydrocarbon reservoirs - Mathematical models Petroleum engineering - Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (pages 433-435) and indexes.
Nota di contenuto	Front Cover; Petroleum Reservoir Simulation: A Basic Approach; Copyright Page; Dedication; Table of Contents; Preface; Introduction; Nomenclature; Chapter 1. Introduction; 1.1 Background; 1.2 Milestones for the Engineering Approach; 1.3 Importance of the Engineering and Mathematical Approaches; 1.4 Summary; 1.5 Exercises; Chapter 2. Single-Phase Fluid Flow Equations in Multidimensional Domain; 2.1 Introduction; 2.2 Properties of Single-Phase Fluid; 2.3 Properties of Porous Media; 2.4 Reservoir Discretization; 2.5 Basic Engineering Concepts; 2.6 Multidimensional Flow in Cartesian Coordinates 2.7 Multidimensional Flow in Radial-Cylindrical Coordinates 2.8 Summary; 2.9 Exercises; Chapter 3. Flow Equations Using CVFD Terminology; 3.1 Introduction; 3.2 Flow Equations Using CVFD Terminology; 3.3 Flow Equations in Radial-Cylindrical Coordinates Using CVFD Terminology; 3.4 Flow Equations Using CVFD Terminology in any Block Ordering Scheme; 3.5 Summary; 3.6 Exercises; Chapter 4. Simulation with a Block-Centered Grid; 4.1 Introduction; 4.2 Reservoir

Discretization; 4.3 Flow Equation for Boundary Gridblocks; 4.4 Treatment of Boundary Conditions; 4.5 Calculation of Transmissibilities 4.6 Symmetry and Its Use in Solving Practical Problems 4.7 Summary; 4.8 Exercises; Chapter 5. Simulation with a Point-Distributed Grid; 5.1 Introduction; 5.2 Reservoir Discretization; 5.3 Flow Equation for Boundary Gridpoints; 5.4 Treatment of Boundary Conditions; 5.5 Calculation of Transmissibilities; 5.6 Symmetry and Its Use in Solving Practical Problems; 5.7 Summary; 5.8 Exercises; Chapter 6. Well Representation in Simulators; 6.1 Introduction; 6.2 Single-Block Wells; 6.3 Multiblock Wells; 6.4 Practical Considerations Dealing with Modeling Well Operating Conditions; 6.5 Summary 6.6 Exercises Chapter 7. Single-Phase Flow Equation for Various Fluids; 7.1 Introduction; 7.2 Pressure Dependence of Fluid and Rock Properties; 7.3 General Single-Phase Flow Equation in Multi Dimensions; 7.4 Summary; 7.5 Exercises; Chapter 8. Linearization of Flow Equations; 8.1 Introduction; 8.2 Nonlinear Terms in Flow Equations; 8.3 Nonlinearity of Flow Equations For Various Fluids; 8.4 Linearization of Nonlinear Terms; 8.5 Linearized Flow Equations in Time; 8.6 Summary; 8.7 Exercises; Chapter 9. Methods of Solution of Linear Equations; 9.1 Introduction; 9.2 Direct Solution Methods 9.3 Iterative Solution Methods 9.4 Summary; 9.5 Exercises; Chapter 10. Introduction to Modeling Multiphase Flow in Petroleum Reservoirs; 10.1 Introduction; 10.2 Reservoir Engineering Concepts in Multiphase Flow; 10.3 Multiphase Flow Models; 10.4 Solution of Multiphase Flow Equations; 10.5 Material Balance Checks; 10.6 Advancing Solution in Time; 10.7 Summary; 10.8 Exercises; Appendix A: User's Manual for Single-Phase Simulator; A.1 Introduction; A.2 Data File Preparation; A.3 Description of Variables Used in Preparing a Data File; A.4 Instructions to Run Simulator A.5 Limitations Imposed on the Compiled Version

Sommario/riassunto

In this highly anticipated volume, the world-renowned authors take a basic approach to present the principles of petroleum reservoir simulation in an easy-to-use and accessible format. Applicable to any oil and gas recovery method, this book uses a block-centered grid and a point-distributed grid. It treats various boundary conditions as fictitious wells, gives algebraic equations for their flow rates and presents an elaborate treatment of radial grid for single-well simulation to analyze well test results and to create well pseudo-functions necessary in conducting a practical re

2. Record Nr.	UNISALENT0991001761619707536
Autore	Tramontano, Luigi
Titolo	Legislazione universitaria / Luigi Tramontano
Pubbl/distr/stampa	Napoli : Esselibri Simone, 1994
ISBN	9788824404259
Edizione	[7. ed.]
Descrizione fisica	416 p. ; 21 cm
Collana	Serie Manuali giuridici ; 42
Disciplina	378
Soggetti	Universities - Higher Education - Legislation - Italy
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia