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Autore	VOLOSINOV, Valentin Nikolaevic
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2. Record Nr.	UNINA9910820805103321
Autore	Islam Rafiqul <1959->
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Half Title page; Title page; Copyright page; Dedication; Preface; Chapter 1: Introduction; 1.1 Summary; 1.2 Opening Remarks; 1.3 The Need for a Knowledge-Based Approach; 1.4 Summary of Chapters; Chapter 2: Reservoir Simulation Background; 2.1 Essence of Reservoir Simulation; 2.2 Assumptions Behind Various Modeling Approaches; 2.3 Recent Advances in Reservoir Simulation; 2.4 Memory Models; 2.5 Future Challenges in Reservoir Simulation; Chapter 3: Reservoir Simulator-Input/Output; 3.1 Input and Output Data; 3.2 Geological and Geophysical Modeling; 3.3 Reservoir Characterization; 3.4 Upscaling 3.5 Pressure/Production Data3.6 Phase Saturations Distribution; 3.7 Reservoir Simulator Output; 3.8 History Matching; 3.9 Real-Time Monitoring; Chapter 4: Reservoir Simulators: Problems, Shortcomings, and Some Solution Techniques; 4.1 Multiple Solutions in Natural Phenomena; 4.2 Adomian Decomposition; 4.3 Some Remarks on Multiple Solutions; Chapter 5: Mathematical Formulation of Reservoir Simulation Problems; 5.1 Black Oil Model and Compositional Model; 5.2 General Purpose Compositional Model; 5.3 Simplification of the General Compositional Model 5.4 Some Examples in Application of the General Compositional ModelChapter 6: The Compositional Simulator Using Engineering Approach; 6.1 Finite Control Volume Method; 6.2 Uniform Temperature Reservoir Compositional Flow Equations in a 1-D Domain; 6.3 Compositional Mass Balance Equation in a Multidimensional Domain; 6.4 Variable Temperature Reservoir Compositional Flow Equations; 6.5 Solution Method; 6.6 The Effects of Linearization; Chapter 7: Development of a New Material Balance Equation for Oil Recovery; 7.1 Summary; 7.2 Introduction; 7.3 Mathematical Model Development 7.3 Porosity Alteration7.4 Pore Volume Change; 7.5 Numerical Simulation; 7.5 Conclusions; Appendix Chapter 7: Development of an MBE for a Compressible Undersaturated Oil Reservoir; Chapter 8: State-of-the-art on Memory Formalism for Porous Media Applications; 8.1 Summary; 8.2 Introduction; 8.3 Historical Development of Memory Concept; 8.4 State-of-the-art Memory-Based Models; 8.5 Basset Force: A History Term; 8.6 Anomalous Diffusion: A memory Application; 8.7 Future Trends; 8.8 Conclusion; Chapter 9: Modeling Viscous Fingering During Miscible Displacement in a Reservoir 9.1 Improvement of the Numerical Scheme9.2 Application of the New Numerical Scheme to Viscous Fingering; Chapter 10: An Implicit Finite-Difference Approximation of Memory-Based Flow Equation in Porous Media; 10.1 Summary; 10.2 Introduction; 10.3 Background; 10.4 Theoretical Development; 10.6 Numerical Simulation; 10.7 Results and Discussion; 10.8 Conclusion; Chapter 11: Towards Modeling Knowledge and Sustainable Petroleum Production; 11.1 Essence of Knowledge, Science, and Emulation; 11.2 The Knowledge Dimension; 11.3 Aphenomenal Theories of Modern Era 11.4 Towards Modeling Truth and Knowledge