

Second Edition

# Applied Hydrodynamics in Petroleum Exploration



Eric C. Dahlberg

Springer-Verlag

# Applied Hydrodynamics In Petroleum Exploration

**John Dolson**



## **Applied Hydrodynamics In Petroleum Exploration:**

Applied Hydrodynamics in Petroleum Exploration E. C. Dahlberg, 2013-11-11 It has for some time been the author's opinion that the need exists for a complete self-contained volume on hydrodynamics addressed to and written in an idiom for geologists and geophysicists actively engaged in the search for hydrocarbons. This book is offered as my attempt to satisfy this need. Explorationists traditionally concern themselves with four basic aspects of oil and gas occurrence since these constitute the necessary conditions enhancing the likelihood of subsurface hydrocarbon accumulations. They are Trap, Reservoir, Source, and the Fluids themselves. Historically, great attention has been paid to traps and reservoirs and much pertinent literature on structure, stratigraphy, and lithology is available. With respect to sources, an increasing body of literature is becoming available in the form of articles, books, and research reports in the areas of geochemistry and mineralogy. It is to the largely ignored fourth aspect, the fluids, that this book is directed. In its formulation, I have drawn from numerous sources: college physics texts, hydrodynamics is one of the most difficult subjects in physics, personal notes from a rigorous two-week course presented by M. K. Hubbert who literally fathered the discipline, journal articles, some strong and others weak in their treatment of the subject, discussions with experienced exploration geologists, some of whom have successfully utilized these procedures, and others who were not so sure and experience gained as well as mistakes made in the course of my own personal oil and gas exploration activities.

### **Applied Hydrodynamics in Petroleum Exploration**

Eric Charles Dahlberg, 1995      *Applied Hydrodynamics in Petroleum Exploration* Eric C. Dahlberg, 1994-12-16      **Applied**

**hydrodynamics in petroleum exploration** Eric C. Dahlberg, E. V. Kučerka, 1985      **Applied Sedimentology** Richard C.

Selley, 2000-05-24 There are three types of rock: igneous, metamorphic, and sedimentary. Sedimentary rocks form from the weathering, erosion, transportation, and deposition of older rocks. *Applied Sedimentology* describes the formation, transportation, and deposition of sediment and the post-depositional processes that change soft sediment into sedimentary rock. Sedimentary rocks include sandstones, limestones, and mudstones. All the world's coal, most of its water, and fossil fuels and many mineral deposits occur in sedimentary rocks. *Applied Sedimentology* shows how the study of sediments aids the exploration for and exploitation of natural resources including water, ores, and hydrocarbons. Completely revised edition. Like its precursor, it describes sediments from sand grains to sedimentary basins. Features up-to-date account and critique of sequence and cyclostratigraphy. Extensively illustrated with photos and remotely sensed sea-bed images describing sedimentary processes, products, and depositional systems. Color plates illustrate sediment textures, lithologies, pore types, diagenetic textures, and carbonate and clastic sequence stratigraphic models. Emphasises the applications of sedimentology to the exploration for and exploitation of natural resources including water, ores, and hydrocarbons. Extensive references and up-to-date bibliography for further study.      Surface Geochemistry in Petroleum Exploration S.A. Tedesco, 2012-12-06 The application of surface geochemical methods to finding petroleum is based on the detection of hydrocarbons in the soil that

have leaked from a petroleum reservoir at depth While the seal over the deposit was once considered impermeable surface geochemistry data now show that such leakage is a common occurrence Despite its simplicity and low costs surface geochemistry remains controversial because until now there was no objective and in depth treatment of the various methods of surface geochemistry for oil exploration Written by a successful oil finder this practical guide surveys a broad array of surface geochemistry techniques from soil gases to microbiology and provides clear strategies for applying them to the high stakes art of petroleum exploration offers numerous case studies both successes and failures to show the strengths and weaknesses of different approaches examines statistical and spatial variation surveys and models in surface geochemistry demonstrating how each analytical tool can be used to optimize accuracy integrates surface geochemistry data interpretation with data from conventional methods of oil exploration and considers the economics of surface geochemical approaches discusses key topics that have been neglected in the literature such as grid design and the effects of soils Geologists geophysicists geological engineers and exploration managers involved in petroleum exploration will gain valuable insights from this volume By presenting and evaluating each method of surface geochemistry in a neutral tone this book enables the reader to select and employ these methods with greater confidence

**Hydrodynamics of Oil and Gas** Ian Lerche,R.O. Thomsen,2013-06-29 There has long been interest in the flow of fluids through permeable aquifers Stratigraphic trapping of oil and gas by permeability changes in an aquifer and the amounts of hydrocarbons so trapped are major concerns to the oil industry The variations of aquifer width and geometry and of the positions in an aquifer where hydrocarbons can be trapped by hydrodynamic forces are intimately intertwined in determining the shape and thus the volume of hydrocarbons Perhaps the seminal work in this area is reflected by King Hubbert's massive review paper Entrapment of Petroleum under Hydrodynamic Conditions Am Assoc Pet Geol Bull 37 8 1954 2026 1953 in which a wide variety of effects such as capillarity buoyancy surface tension and salinity of water are incorporated as basic factors influencing the positioning and shaping of hydrocarbon masses in hydrodynamically active aquifers In those days while the basic physics could readily be appreciated development of a detailed quantitative understanding of the interplay of the various factors in controlling or modulating hydrodynamic shapes was severely limited by computer abilities Indeed Hubbert actually constructed and photographed physical models using alcohol and water to illustrate basic concepts It is difficult to obtain an appreciation of the behavior of flow geometries from such experiments when all factors are permitted to vary simultaneously

Geological Risk and Uncertainty in Oil Exploration Ian Lerche,1997 The subsequent incorporation of model uncertainties into probabilistic models of basin evolution and behavior constitutes the second half of this book Throughout the author interweaves a discussion of scientific probability risk and strategy within the context of improving our ability to assess strategic hydrocarbon resources

**Oil Exploration** Ian Lerche,2012-12-02 This book presents quantitative procedures for assessing predictions of potential oil recovery basin size hydrocarbon content and economic impact exploration cost production

transport and refining Emphasis is placed on advances made in analytical methods and improved techniques developed during the last decade

**Economic Risk in Hydrocarbon Exploration** Ian Lerche, John A. MacKay, 1999-01-08 Economic Risk in Hydrocarbon Exploration provides a total framework for assessing the uncertainties associated with exploration risk from beginning to end Numerous examples with accompanying microcomputer algorithms illustrate how to quantitatively approach economic risk The text compares detailed assumptions and models of economic risk and presents numerical examples throughout to facilitate hands on calculations using popular spread sheet packages on personal computers Covers economic risk from exploration through production models Brings methods to a level where all can be done on a PC Analyzes numerical examples from the real world Removes mystery from how economics is done Addresses assumptions in models and shows how they influence projections

**Understanding Oil and Gas Shows and Seals in the Search for Hydrocarbons** John Dolson, 2016-06-15 This book explains in detail how to use oil and gas show information to find hydrocarbons It covers the basics of exploration methodologies drilling and mud systems cuttings and mud gas show evaluation fundamental log analysis the pitfalls of log calculated water saturations and a complete overview of the use of pressures to understand traps and migration hydrodynamics and seal and reservoir quantification using capillary pressure Also included are techniques for quickly generating pseudo capillary pressure curves from simple porosity permeability data with examples of how to build spreadsheets in Excel and a complete treatment of fluid inclusion analysis and fluid inclusion stratigraphy to map migration pathways In addition petroleum systems modeling and fundamental source rock geochemistry are discussed in depth particularly in the context of unconventional source rock evaluation and screening tools for entering new plays The book is heavily illustrated with numerous examples and case histories from the author's 37 years of exploration experience The topics covered in this book will give any young geoscientist a quick start on a successful career and serve as a refresher for the more experienced explorer

*Improving the Exploration Process by Learning from the Past* K. Ofstad, E.-J. Kittilsen, P. Alexander-Marrack, 2000-07-07 Learning by experience is both a part of the daily life and the exploration life A systematic review of the past is essential to improve the exploration process by better managing risks and uncertainties Learning through different disciplines has become a favoured technique With new tools for interpretation and simulation integration and data and the creation of cross discipline teams we can take major step forward in understanding the exploration task and its different elements Global views and lessons learned on the Norwegian Continental Shelf on risk management and retrospective prospect assessment are presented in this book Detailed exploration case histories from the Norwegian Continental Shelf documenting both positive and negative experiences and highlighting the benefits of integrated thinking and methods are presented The impact of the application of various state of the art and developing technologies on portfolio management opportunity evaluation and volumetric and risk assessment of prospects and discoveries are reviewed and the future technological challenges in exploring the remaining hydrocarbon potential of the Norwegian continental Shelf

are summarised      *Computerized Basin Analysis* Jan Harff, Daniel F. Merriam, 2012-12-06 This symposium on Computerized Basin Analysis for Prognosis of Energy and Mineral Resources was organized by Dr Jan Harff chairman of the Scientific Committee for the meeting in Giistrow in what was then East Germany Sponsors of this meeting were the International Union of Geological Sciences Commission on Storage Automatic Processing and Retrieval of Geologic Data COGEO DATA Academy of Sciences of the German Democratic Republic GDR National Oil and Gas Trust of the GDR and the International Association for Mathematical Geology IAMG Main topics of the symposium held from 19-22 June 1990 were application of computer methods to the exploration and exploitation of oil and gas coal and other energy and mineral resources There were computer demonstrations as well as a one day field trip to the geothermic heating plant in Waren The Regional Group for Eastern Europe of COGEO DATA also met during the conference Fifty one papers were presented including eight poster sessions by authors from 14 countries As was to be expected there was a large percentage of papers from the East Bloc of European countries especially the GDR USSR and the CSSR with a fair representation from the FRG and USA and a smattering from the nine others Most of the papers were application oriented and related to the mineral industries There was ample time for exchange of ideas and dissemination of material      **Hydrocarbon Migration Systems Analysis** J.M. Verweij, 1993-01-27

The main intention of this book is to provide geoscientists interested or working in hydrocarbon exploration with a comprehensive understanding of the evolution of hydrocarbon migration systems in sedimentary basins and to give guidelines for its application in basin evaluation For this purpose the book fully integrates hydrogeologic and hydrodynamic aspects of the evolution of sedimentary basins with petroleum geologic aspects It will be of interest to petroleum geologists hydrogeologists geochemists and reservoir geologists      *Simulating Oil Entrapment in Clastic Sequences* J.

Wendebourg, J.W. Harbaugh, 1997-11-10 The book introduces procedures for simulating migration and entrapment of oil in three dimensions in sequences of sandstones and shales A principal purpose is to show how simulation experiments can represent oil migration routes and predict places where oil may be trapped in sandstones and intercalated shales The book derives the differential equations used to represent three dimensional motions of porewater and oil in sedimentary sequences and shows how the equations may be transformed into finite form for numerical solution with computers There is emphasis on the graphic display of solutions and results of example theoretical and actual applications are presented The book is directed to geologists who have backgrounds in mathematics and computing and who are engaged in oil exploration and production      **Rifts and Passive Margins** Michal Nemčok, 2016-03-02 This is a comprehensive synthesis of state of the art information on vitally important hydrocarbon habitats for advanced geology students and researchers exploration

geoscientists and petroleum managers      **Development Geology Reference Manual** Diana Morton-Thompson, Arnold M. Woods, 1993      *Geochemistry of Organic Matter in the Ocean* Evgenii A. Romankevich, 2013-11-11 My work *Geochemistry of organic matter in the ocean* first appeared in Russian in 1978 Since then much progress has been made in the exploration of

various forms of organic matter in the ocean dissolved colloidal organic matter suspended in particles and that contained in bottom sediments and in interstitial waters The appropriate evidence is found in hundreds of articles and several review works such as Andersen 1977 Biogeochimie de la matiere organique a l'interface eau sediment-marine 1980 Duursma and Dawson 1981 A great amount of new information has been obtained in the Soviet Union's scientific institutions on the composition and distribution in natural waters and bottom sediments of organic matter and its separate components playing a crucial role in the formation of the chemical and biological structure of the ocean and its productivity in the biogeochemistry of the elements and geochemistry of organic matter in the Earth's sedimentary cover The areas of exploration have expanded over the past four and a half years to embrace many new little known regions including the Arctic seas In contrast to the three preceding decades the research has been focused on investigating the existing forms the distribution and accumulation of organic matter in near continental oceanic zones between land and sea and in river estuaries

Reservoir Model Design Philip Ringrose, Mark Bentley, 2021-06-09 This book gives practical advice and ready to use tips on the design and construction of subsurface reservoir models The design elements cover rock architecture petrophysical property modelling multi scale data integration upscaling and uncertainty analysis Philip Ringrose and Mark Bentley share their experience gained from over a hundred reservoir modelling studies in 25 countries covering clastic carbonate and fractured reservoir types and for a range of fluid systems oil gas and CO<sub>2</sub> production and injection and effects of different mobility ratios The intimate relationship between geology and fluid flow is explored throughout showing how the impact of fluid type displacement mechanism and the subtleties of single and multi phase flow combine to influence reservoir model design The second edition updates the existing sections and adds sections on the following topics A new chapter on modelling for CO<sub>2</sub> storage A new chapter on modelling workflows An extended chapter on fractured reservoir modelling An extended chapter on multi scale modelling An extended chapter on the quantification of uncertainty A revised section on the future of modelling based on recently published papers by the authors The main audience for this book is the community of applied geoscientists and engineers involved in understanding fluid flow in the subsurface whether for the extraction of oil or gas or the injection of CO<sub>2</sub> or the subsurface storage of energy in general We will always need to understand how fluids move in the subsurface and we will always require skills to model these quantitatively The second edition of this reference book therefore aims to highlight the modelling skills developed for the current energy industry which will also be required for the energy transition of the future The book is aimed at technical professional practitioners in the energy industry and is also suitable for a range of Master's level courses in reservoir characterisation modelling and engineering Provides practical advice and guidelines for users of 3D reservoir modelling packages Gives advice on reservoir model design for the growing world wide activity in subsurface reservoir modelling Covers rock modelling property modelling upscaling fluid flow and uncertainty handling Encompasses clastic carbonate and fractured reservoirs Applies to multi fluid cases and applications

hydrocarbons and CO<sub>2</sub> production and storage rewritten for use in the Energy Transition      *Elements of Petroleum Geology*  
Richard C. Selley, Stephen A. Sonnenberg, 2014-11-08 This Third Edition of *Elements of Petroleum Geology* is completely updated and revised to reflect the vast changes in the field since publication of the Second Edition This book is a useful primer for geophysicists geologists and petroleum engineers in the oil industry who wish to expand their knowledge beyond their specialized area It is also an excellent introductory text for a university course in petroleum geoscience *Elements of Petroleum Geology* begins with an account of the physical and chemical properties of petroleum reviewing methods of petroleum exploration and production These methods include drilling geophysical exploration techniques wireline logging and subsurface geological mapping After describing the temperatures and pressures of the subsurface environment and the hydrodynamics of connate fluids Selley examines the generation and migration of petroleum reservoir rocks and trapping mechanisms and the habit of petroleum in sedimentary basins The book contains an account of the composition and formation of tar sands and oil shales and concludes with a brief review of prospect risk analysis reserve estimation and other economic topics Updates the Second Edition completely Reviews the concepts and methodology of petroleum exploration and production Written by a preeminent petroleum geologist and sedimentologist with decades of petroleum exploration in remote corners of the world Contains information pertinent to geophysicists geologists and petroleum reservoir engineers Updated statistics throughout Additional figures to illustrate key points and new developments New information on drilling activity and production methods including crude oil directional drilling thermal techniques and gas plays Added coverage of 3D seismic interpretation New section on pressure compartments New section on hydrocarbon adsorption and absorption in source rocks Coverage of The Orinoco Heavy Oil Belt of Venezuela Updated chapter on unconventional petroleum



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