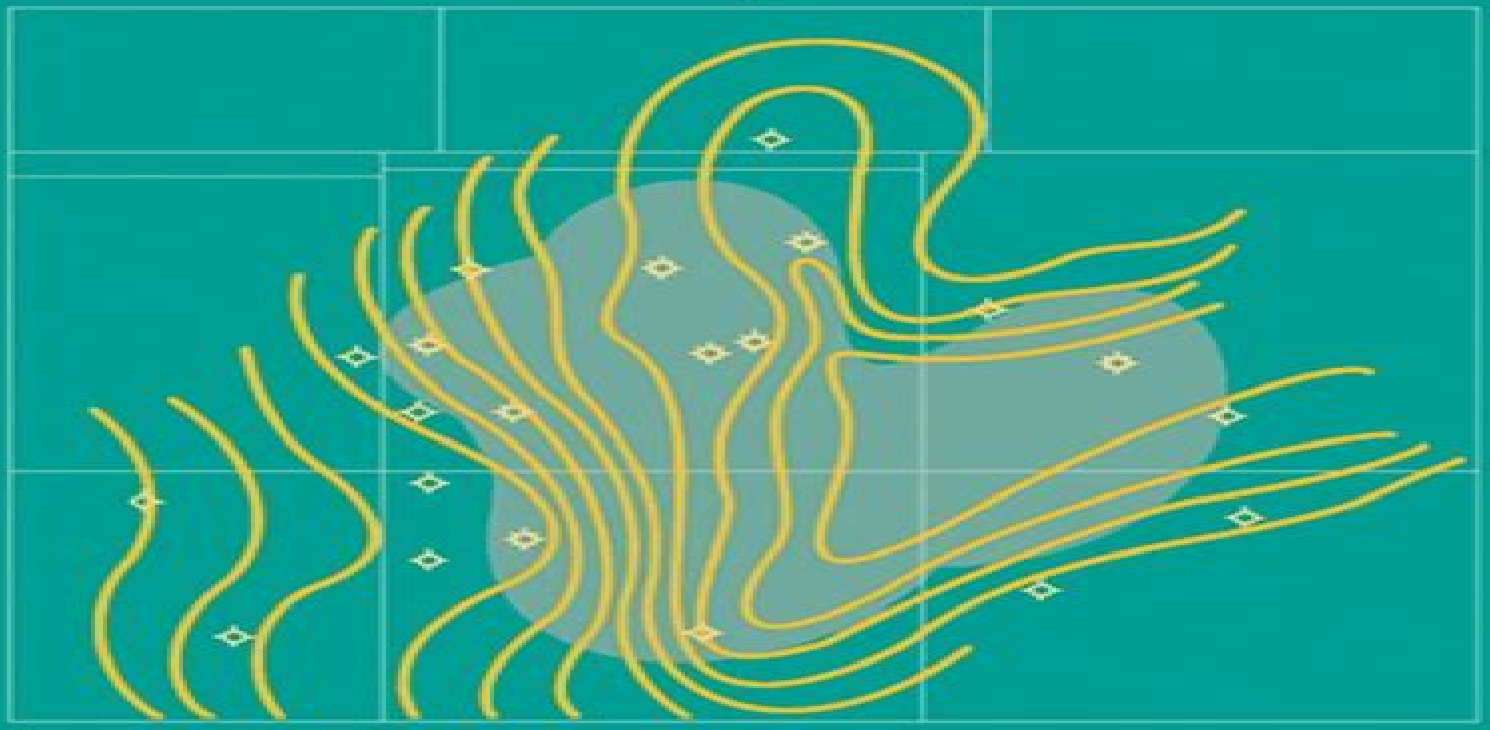
Second Edition

# Applied Hydrodynamics in Petroleum Exploration



Eric C. Dahlberg

Springer-Verlag

# Applied Hydrodynamics In Petroleum Exploration

Jan Harff,Daniel F. Merriam

**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 con ditions enhancing the likelihood of subsurface hydrocarbon accumula tions They are Trap Reservoir Source and the Fluids themselves His torically 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 avail able 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 Hub bert who literally fathered the discipline journal articles some strong and others weak in their treatment of the subject discussions with expe rienced 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,1988 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 **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 aqui fers 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 hydro dynamic 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 influenc ing the positioning and shaping of hydrocarbon masses in hydrodynami cally 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 hydro dynamic shapes was severely limited by computer abilities Indeed Hub bert 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 **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 *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 ofthe Scientific Committee for the meeting in Giistrowin what was then East Germany Sponsors ofthis meeting were the International Union of Geological Sciences Commission on Storage Automatic Pro cessing and Retrieval of Geologic Data COGEODATA Academy of Sciences of the German Democratic Republic GDR National Oil and Gas Trustofthe 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 COG EO 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

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**Applied Hydrodynamics In Petroleum Exploration Introduction**

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