



DEVELOPMENTS IN
PETROLEUM SCIENCE

54

MULTIPHASE FLOW METERING

PRINCIPLES AND APPLICATIONS

GIOIA FALCONE, GEOFFREY F. HEWITT
& CLAUDIO ALIMONTI



Multiphase Flow Metering Volume 54 Principles And Applications Developments In Petroleum Science

Arthur James Wells



Multiphase Flow Metering Volume 54 Principles And Applications Developments In Petroleum Science:

Multiphase Flow Metering Gioia Falcone, Geoffrey Hewitt, C. Alimonti, 2009-11-16 Over the last two decades the development evaluation and use of MFM systems has been a major focus for the Oil Gas industry worldwide Since the early 1990 s when the first commercial meters started to appear there have been around 2 000 field applications of MFM for field allocation production optimisation and well testing So far many alternative metering systems have been developed but none of them can be referred to as generally applicable or universally accurate Both established and novel technologies suitable to measure the flow rates of gas oil and water in a three phase flow are reviewed and assessed within this book Those technologies already implemented in the various commercial meters are evaluated in terms of operational and economical advantages or shortcomings from an operator point of view The lessons learned about the practical reliability accuracy and use of the available technology is discussed The book suggests where the research to develop the next generation of MFM devices will be focused in order to meet the as yet unsolved problems The book provides a critical and independent review of the current status and future trends of MFM supported by the authors strong background on multiphase flow and by practical examples These are based on the authors direct experience on MFM gained over many years of research in connection with both operators and service companies As there are currently no books on the subject of Multiphase Flow Metering for the Oil Gas industry this book will fill in the gap and provide a theoretical and practical reference for professionals academics and students Written by leading scholars and industry experts of international standing Includes strong coverage of the theoretical background yet also provides practical examples and current developments Provides practical reference for professionals students and academics Computational & Experimental Methods in Multiphase & Complex Flow X S. Hernández, P. Vorobieff, 2019-07-23 Composed of papers presented at the 10th conference on Multiphase flow this book presents the latest research on the subject The research included in this volume focuses on using synergies between experimental and computational techniques to gain a better understanding of all classes of multiphase and complex flow **The Journal of Canadian Petroleum Technology**, 1994 **Energy Research Abstracts**, 1982 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **The British National Bibliography** Arthur James Wells, 1968 *International Research Centers Directory*, 1999 *Multiphase Flow Metering* Gioia Falcone, 2011 **Multiphase Production** Jean Falcimaigne, Sandrine Decarre, 2008 Annotation This book presents the fundamentals of multiphase production with regard to flow simulations in multiphase pipelines multiphase pumping and multiphase metering It gives a large range of information

on approaches and technologies which can be used today It is designed for engineers involved in field development but also for petroleum engineering students

Multiphase Transport of Hydrocarbons in Pipes Juan J. Manzano-Ruiz, Jose G. Carballo, 2024-04-09 Multiphase Transport of Hydrocarbons in Pipes An introduction to multiphase flows in the oil and gas industry The term multiphase flow refers to the concurrent flow of oil and or gas alongside other substances or materials such as production water chemical inhibitors and solids e g sand This is a critical topic in the oil and gas industry where the presence of multiple flow phases in pipelines affects deliverability generates serious complications in predicting flow performance for system design and operation and requires specific risk mitigation actions and continuous maintenance Chemical and Mechanical Engineers interested in working in this industry will benefit from understanding the basic theories and practices required to model and operate multiphase flows through pipelines wells and other components of the production system Multiphase Transport of Hydrocarbons in Pipes meets this need with a comprehensive overview of five decades of research into multiphase flow Incorporating fundamental theories historic and cutting edge multiphase flow models and concrete examples of current and future applications This book provides a sound technical background for prospective or working engineers in need of understanding this crucial area of industry Readers will also find Fundamental principles supporting commercial software Detailed tools for estimating multiphase flow rates through flowlines wells and more Integration of conservation principles with thermodynamic and transport properties Coverage of legacy and modern simulation models This book is ideal for flow assurance engineers facilities engineers oil and gas production engineers and process engineers as well as chemical and mechanical engineering students looking to work in any of these roles

Advances in Multiphase Flow and Heat Transfer Lixin Cheng, Dieter Mewes, 2012-04-19 Multiphase flow and heat transfer have found a wide range of applications in several engineering and science fields such as mechanical engineering chemical and petrochemical engineering nuclear engineering energy engineering material engineering ocean **Multiphase Technology** G. A. Gregory, C. Radu, 2000-07-26 This volume provides an international forum for the exchange of the latest and most up to date designs for multiphase flow The development for marginal offshore oil and gas discoveries and or land based fields in remote locations have led to significant research aimed at improving our understanding of this complex technology Better design methods have been developed not only for transporting multiphase hydrocarbon fluids over long distances but also for pumping metering and processing equipment Pressure on minimising costs and need to develop smaller deeper and more remote fields have continued to spur the application of multiphase technology However the uncertainty of adopting new technology will only be overcome with knowledge and expertise by field use or by force of circumstances where it is seen to be the only viable method

Advances in Multiphase Flow and Heat Transfer: Volume 1 Lixin Cheng, Dieter Mewes, 2009-12-31 Multiphase flow and heat transfer have found a wide range of applications in several engineering and science fields such as mechanical engineering chemical and petrochemical engineering nuclear

engineering energy engineering material engineering ocean *Handbook of Multiphase Flow Science and Technology* Guan Heng Yeoh, 2015-08-10 This Handbook provides readers with the current cutting edge of multiphase flow technology It reviews the rapid development of multiphase flow technology demonstrates the latest development of the technology and showcase the very latest applications It provides readers with comprehensive updated reference information covering theory modelling and numerical methods design and measurement and new applications in multiphase flow systems The Handbook consists of three parts or volumes 1 Theory describes the fundamentals including the concepts and definitions of multiphase flows Classifications of multiphase flows Basic understanding of different length scales involved micro nano meso and macro Treatment of such flows by different solution frameworks 2 Modelling and Measurement covers both classical and state of the art measurement and modelling approaches to resolve different classifications of multiphase flows 3 Applications highlights the very latest applications of measurement and modelling approaches in tackling different classification of multiphase flows in a variety of natural biological and industrial systems and different length scales *Advances in Multiphase Flow and Heat Transfer: Volume 2* Lixin Cheng, Dieter Mewes, 2009 Multiphase flow and heat transfer have found a wide range of applications in several engineering and science fields such as mechanical engineering chemical and petrochemical engineering nuclear engineering energy engineering material engineering ocean **Introduction to Multiphase Flow** George Yadigaroglu, Geoffrey F. Hewitt, 2017-08-19 This book is the maiden volume in a new series devoted to lectures delivered through the annual seminars Short Courses on Multiphase Flow held primarily at ETH Zurich continuously since 1984 The Zurich short courses presented by prominent specialists in the various topics covered have attracted a very large number of participants This series presents fully updated and when necessary re grouped lectures in a number of topical volumes The collection aims at giving a condensed critical and up to date view of basic knowledge on multiphase flows in relation to systems and phenomena encountered in industrial applications The present volume covers the background of Multiphase Flows MPF that introduces the reader to the particular nature and complexity of multiphase flows and to basic but critical aspects of MPFs including concepts and the definition of the quantities of interest an introduction to modelling strategies for MPFs flow regimes flow regime maps and transition criteria It also deals with the ubiquitous needs of the multiphase flow modeller namely pressure drop and phase distribution i e the void fraction and the topology of the phases that determines the flow regimes **State of the Art Multiphase Flow Metering**, 2004 *Multiphase Flow S.* Hernández, P. Vorobieff, 2020-06-03 The research included in this volume focuses on using synergies between experimental and computational techniques to gain a better understanding of all classes of multiphase and complex flow The included papers illustrate the close interaction between numerical modellers and researchers working to gradually resolve the many outstanding issues in our understanding of multiphase flow Recently multiphase fluid dynamics have generated a great deal of attention leading to many notable advances in experimental analytical and numerical studies Progress in numerical

methods has permitted the solution of many practical problems helping to improve our understanding of the physics involved. Multiphase flows are found in all areas of technology and the range of related problems of interest is vast including astrophysics, biology, geophysics, atmospheric process and many areas of engineering.

Multiphase Technology J. P. Brill, G. A. Gregory, 1998-03-13. This text details papers presented at a conference for all those involved in the application, development and research of multiphase technology. Topics covered include field measurements, separation, boosting and metering and modelling.

Multiphase Flow in Porous Media Myron B. Allen, Grace A. Behie, John A. Trangenstein, 2013-03-08. The past decade has seen remarkable growth in research related to petroleum reservoir simulation. This growth reflects several developments, not the least of which is the increased interest in oil recovery technologies requiring sophisticated engineering. Augmenting this interest has been the broader availability of supercomputers capable of handling the tremendous computational demands of a typical reservoir simulator. The field of reservoir simulation incorporates several major facets of applied mathematics. First in view of the variety and complexity of the processes encountered, it is imperative that the modeler adopt a systematic approach to establishing the equations governing reservoir flows. Second, the mathematical structure of these flow equations needs to be carefully analyzed in order to develop appropriate and efficient numerical methods for their solution. Third, since some aspects of the discretized flow equations are typically stiff, one must develop efficient schemes for solving large sparse systems of linear equations. This monograph has three parts, each devoted to one of these three aspects of reservoir modeling. The text grew out of a set of lectures presented by the authors in the autumn of 1986 at the IBM Scientific Center in Bergen, Norway. We feel that it is only appropriate to caution the reader that many of the ideas that we present in this monograph do not reflect standard approaches in petroleum reservoir simulation. In fact, our aim is to outline promising new ways of attacking reservoir simulation problems rather than to compile another textbook for the mainstream.

Advances in Multiphase Flow and Heat Transfer Lixin Cheng, Dieter Mewes, 2012. Multiphase flow and heat transfer have found a wide range of applications in several engineering and science fields such as mechanical engineering, chemical and petrochemical engineering, nuclear engineering, energy engineering, material engineering, ocean

Whispering the Techniques of Language: An Mental Quest through **Multiphase Flow Metering Volume 54 Principles And Applications Developments In Petroleum Science**

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Introduction

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