

Fundamentals Reservoir Engineering Developments Petroleum

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one of the fundamental aspects of petroleum exploitation and production is that of petroleum engineering ie the assessment and recovery of oil from the various types of oil reservoirs the importance of effective petroleum engineering has increased dramatically due to a number of varying reasons firstly recoverable oil reserves should be capable of extended life by application of efficient reservoir depletion methods secondly the average recovery factor does not appear to have increased over the last three decades thirdly the behaviour of reservoirs is still unpredictable in spite of the fact that the principles of oil

recovery are better understood finally there has been an enormous growth in the number of computer based analysis techniques available to the engineer these factors taken in conjunction with the fact that many developments have been presented as unpublished papers have highlighted the need for a series of volumes which will give the engineer a starting point for the collection of up to date information this new series of volumes developments in petroleum engineering is intended to fill this gap and will contain reviews of recent developments the chapters are written by specialists at a level which summarises the progress but does not necessarily cover every facet and detail of a particular subject rather they direct the reader to the most useful of the original sources

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petroleum engineering is an engineering discipline concerned with the activities related to the production of hydrocarbons which can be either crude oil or natural gas subsurface activities are deemed to fall within the upstream sector of the oil and gas industry which are the activities of finding and producing hydrocarbons this book presents current research in the study of sustainable petroleum engineering including topics such as optimisation techniques in groundwater monitoring network design for petroleum contaminant detection a relation analysis based approach for assessing risks of petroleum contaminated sites and an improved model for predicting formation damage induced by oilfield scales

the business of upstream oil and gas industry is a complex process that involves multidisciplinary participation producing crude oil and natural gas from the subsurface reservoir rocks to the point of the selling terminal requires stage by stage processes that costs several hundreds of millions of dollars to the operating companies because of the capital intensive nature of upstream investments every required process is challenged of its economic impact or benefits it will have on the project s net present value npv the techniques applied in determining the economics of these processes and their selection criteria are addressed in the book this book guides the reader through these strategic processes and presents the participants involved in the business of upstream oil

and gas prospecting and the conditions that dictate the field development and investment decisions by investors it also reveals the shared interests and relationships that exist between international oil companies iocs and national oil companies nocs in the exploration and exploitation of their hydrocarbon resources and reserves this text will serve the purpose of teaching and learning to those in the energy and financial sectors as the methods tools and techniques discussed throughout the chapters will equip students tutors experts and professionals with the necessary skills and knowledge of exploration and production e p projects and energy financing and investment the principles of project management as it applies in upstream oil gas projects are discussed as well and the criteria for project ranking selection and budgeting which are sine qua non to project financing and execution are well documented in this book

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