

DEVELOPMENTS IN PETROLEUM SCIENCE 21

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application of optimal control theory to enhanced oil recovery

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Application Of Optimal Control Theory To Enhanced Oil Recovery

**J. Hutcheon,A. Myers,S. Oue,B.
Rodden,J. Whittick**



Application Of Optimal Control Theory To Enhanced Oil Recovery:

Application of Optimal Control Theory to Enhanced Oil Recovery W. Fred Ramirez, 1987 **Application of Optimal Control Theory to Enhanced Oil Recovery** W. Fred Ramirez, 1987-01-01 In recent years enhanced oil recovery techniques have received much attention in the oil industry Enhanced oil recovery methods can be divided into three major categories thermal processes which include steam flooding steam stimulation and in situ combustion chemical processes which include surfactant polymer injection polymer flooding and caustic flooding and miscible displacement processes which include miscible hydrocarbon displacement carbon dioxide injection of large amounts of rather expensive fluids into oil bearing reservoir formations Commercial application of any enhanced oil recovery process relies upon economic projections that show a decent return on the investment Because of high chemical costs it is important to optimize enhanced oil recovery processes to provide the greatest recovery at the lowest chemical injection cost The aim of this book is to develop an optimal control theory for the determination of operating strategies that maximize the economic attractiveness of enhanced oil recovery processes The determination of optimal control histories or operating strategies is one of the key elements in the successful usage of new enhanced oil recovery techniques The information contained in the book will therefore be both interesting and useful to all those working in petroleum engineering petroleum management and chemical engineering

Mathematical Control Theory Eduardo D. Sontag, 2013-11-21 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics This renewal of interest both in research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this textbook series is to meet the current and future needs of these advances and to encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematics Sciences AMS series which will focus on advanced textbooks and research level monographs v Preface to the Second Edition The most significant differences between this edition and the first are as follows Additional chapters and sections have been written dealing with nonlinear controllability via Lie algebraic methods variational and numerical approaches to nonlinear control including a brief introduction to the Calculus of Variations and the Minimum Principle time optimal control of linear systems feedback linearization single input case nonlinear optimal feedback controllability of recurrent nets and controllability of linear systems with bounded controls **Computational Optimization and Applications in Engineering and Industry** Xin-She Yang, Slawomir Koziel, 2011-06-19 Contemporary design in engineering and industry relies heavily on computer

simulation and efficient algorithms to reduce the cost and to maximize the performance and sustainability as well as profits and energy efficiency Solving an optimization problem correctly and efficiently requires not only the right choice of optimization algorithms and simulation methods but also the proper implementation and insight into the problem of interest This book consists of ten self contained detailed case studies of real world optimization problems selected from a wide range of applications and contributed from worldwide experts who are working in these exciting areas Optimization topics and applications include gas and water supply networks oil field production optimization microwave engineering aerodynamic shape design environmental emergence modelling structural engineering waveform design for radar and communication systems parameter estimation in laser experiment and measurement engineering materials and network scheduling These case studies have been solved using a wide range of optimization techniques including particle swarm optimization genetic algorithms artificial bee colony harmony search adaptive error control derivative free pattern search surrogate based optimization variable fidelity modelling as well as various other methods and approaches This book is a practical guide to help graduates and researchers to carry out optimization for real world applications More advanced readers will also find it a helpful reference and aide memoire

Microbial Enhancement of Oil Recovery - Recent Advances E.T. Premuzic,A. Woodhead,1993-07-23 This volume is concerned with many aspects of petroleum microbiology and biochemistry all with strong commercial applications Worldwide research on the major topic MEOR Microbially Enhanced Oil Recovery is comprehensively covered under experimental work field applications and modeling The challenge of formulating a complete in situ MEOR system microorganisms nutrient package and other amendments is explored together with the future needs in the design and execution of this new biotechnology

Casing Design - Theory and Practice S.S. Rahman,G.V. Chilingarian,1995-08-01 Casing design has followed an evolutionary trend and most improvements have been made due to the advancement of technology Contributions to the technology in casing design have come from fundamental research and field tests which have made casing safe and economical This book gathers together much available information in the subject area and shows how it may be used in deciding the best procedure for casing design i e optimizing casing design for deriving maximum profit from a particular well The problems and their solutions which are provided in each chapter and the computer program 3 5 in disk are intended to serve two purposes firstly as illustrations for students and practicing engineers to understand the subject matter and secondly to enable them to optimize casing design for a wide range of wells to be drilled in the future

Decision Making Under Uncertainty Claude Greengard,Andrzej Ruszczynski,2012-12-06 In the ideal world major decisions would be made based on complete and reliable information available to the decision maker We live in a world of uncertainties and decisions must be made from information which may be incomplete and may contain uncertainty The key mathematical question addressed in this volume is how to make decision in the presence of quantifiable uncertainty The volume contains articles on model problems of decision making process in the energy and power industry when the

available information is noisy and or incomplete The major tools used in studying these problems are mathematical modeling and optimization techniques especially stochastic optimization These articles are meant to provide an insight into this rapidly developing field which lies in the intersection of applied statistics probability operations research and economic theory It is hoped that the present volume will provide entry to newcomers into the field and stimulation for further research

Petroleum and Marine Technology Information Guide J. Hutcheon,A. Myers,S. Oue,B. Rodden,J. Whittick,2003-09-02 First published in 1981 as the Offshore Information Guide this guide to information sources has been hailed internationally as an indispensable handbook for the oil gas and marine industries

Petroleum Related Rock Mechanics E. Fjær,Per Horsrud,Arne Marius Raaen,R. Risnes,Rune Martin Holt,1992-01-03 This long awaited volume written specifically for petroleum workers explores the fundamental concepts of rock mechanics along with various petroleum related applications Emphasis is placed on the weak sedimentary rocks which normally fall between traditional rock mechanics and soil mechanics Elasticity failure mechanics acoustic wave propagation and geological aspects of rock materials are all detailed Application areas discussed include stability during drilling sand production fracturing and reservoir compaction Methods for acquisition of data from field and laboratory analyses are also described Engineers and geologists in the petroleum industry will find this book a powerful resource in providing a basis of rock mechanical knowledge a knowledge which can greatly assist in the understanding of field behaviour design of test programmes and the design of field operations

Studies in Abnormal Pressures W.H. Fertl,R.E. Chapman,R.F. Hotz,1994-02-01 When Fertl s first book Abnormal Formation Pressures was published by Elsevier in 1976 the topic was relatively new in book form In the years that followed his book became the standard work for petroleum engineers and drillers The list of major petroleum provinces with abnormally high pore pressures has grown steadily over the years and with it has grown our knowledge and experience There have also been technological advances A new book was required but no longer could the topic be covered adequately by one person The problems of abnormally high formation pressures encountered in the subsurface while drilling for petroleum are very diverse involving geologists geophysicists reservoir engineers drilling engineers and borehole logging engineers The acute anticipation of such pressures before drilling has become possible with modern technology This book treats these developments and covers the following topics world occurrences the geology of abnormal pore pressures and the background theory reservoir engineering aspects of abnormally pressured reservoirs detection of abnormal pressures by geophysical methods before drilling and during drilling and their evaluation after drilling It examines the special problems of shallow hazards from shallow abnormal pressures and relief well engineering to control blowouts It also examines the generation of abnormal pressures from hydrocarbon generation in the Rocky Mountains and the distribution of abnormal pressures in south Louisiana USA The topics are examined from a practical point of view with a theoretical background There is a glossary of terms and a relevant practical conversion table Both SI units and the conventional US oil industry units are used

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