

**Coalbed Methane:
Principles and Practice
(Prentice Hall
petroleum engineering)**

Rogers, Rudy E.

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Rudy E. Rogers



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Coalbed Methane Rudy E. Rogers, 1994 Methane stored in coalbeds has emerged as an energy source that offers a viable alternative to fossil fuels This reference discusses the principles of methane storage in coal and the practices of producing the methane economically and provides an analysis of the coalbed methane process *Coal Bed Methane* Pramod Thakur, Steven J. Schatzel, Kashy Aminian, Gary Rodvelt, Morgan H. Mosser, Joseph S. D'Amico, 2020-04-06 Coal Bed Methane Theories and Applications Second Edition captures the full lifecycle of a coal bed methane well and offers petroleum geologists and engineers a single source for a broad range of coal bed methane CBM applications The vast coal resources in the United States continue to produce tremendous amounts of natural gas contributing to a diverse range of energy assets This book addresses crucial technical topics including exploration and evaluation of coal bed reservoirs hydraulic fracturing of CBM wells coal seam degasification and production engineering and processing among others The book also covers legal issues and permitting along with an economic analysis of CBM projects This new edition includes information on new and established research and applications making it relevant for field geologists and engineers as well as students Edited by a team of coal bed methane experts from industry academia and government with more than 100 years of combined experience in the field Contains more than 150 figures photographs and illustrations to aid in the understanding of fundamental concepts Presents the full scope of improvements in U S energy independence coal mine safety and greenhouse gas emissions Energy Resources and Systems Tushar K. Ghosh, Mark A. Prelas, 2009-06-04 In the lifetimes of the authors the world and especially the United States have received three significant wake up calls on energy production and consumption The first of these occurred on October 15 1973 when the Yom Kippur War began with an attack by Syria and Egypt on Israel The United States and many western countries supported Israel Because of the western support of Israel several Arab oil exporting nations imposed an oil embargo on the west These nations withheld five million barrels of oil per day Other countries made up about one million barrels of oil per day but the net loss of four million barrels of oil production per day extended through March of 1974 This represented 7% of the free world's i e excluding the USSR oil production In 1972 the price of crude oil was about 3 00 per barrel and by the end of 1974 the price of oil had risen by a factor of 4 to over 12 00 This resulted in one of the worst recessions in the post World War II era As a result there was a movement in the United States to become energy independent At that time the United States imported about one third of its oil about five million barrels per day After the embargo was lifted the world chose to ignore the wake up call and went on with business as usual Energy Resources and Systems Tushar Ghosh, Mark Prelas, 2009-06-17 In the lifetimes of the authors the world and especially the United States have received three significant wake up calls on energy production and consumption The first of these occurred on October 15 1973 when the Yom Kippur War began with an attack by Syria and Egypt on Israel The United States and many western countries supported Israel Because of the western support of Israel several Arab oil exporting

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Chemical Methods

Abdolhossein Hemmati-Sarapardeh, Mahin Schaffie, Mohammad Ranjbar, Mingzhe Dong, Zhaomin Li, 2021-11-30 Chemical Methods a new release in the Enhanced Oil Recovery series helps engineers focus on the latest developments in one fast growing area Different techniques are described in addition to the latest technologies in data mining and hybrid processes Beginning with an introduction to chemical concepts and polymer flooding the book then focuses on more complex content guiding readers into newer topics involving smart water injection and ionic liquids for EOR Supported field case studies illustrate a bridge between research and practical application thus making the book useful for academics and practicing engineers This series delivers a multi volume approach that addresses the latest research on various types of EOR Supported by a full spectrum of contributors this book gives petroleum engineers and researchers the latest developments and field applications to drive innovation for the future of energy Presents the latest research and practical applications specific to chemical enhanced oil recovery methods Helps users understand new research on available technology including chemical flooding specific to unconventional reservoirs and hybrid chemical options Includes additional methods such as data mining applications and economic and environmental considerations

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Proceedings of the 8th US Mine Ventilation Symposium Jerry Chen-Jen Tien, 1999

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computer methods and will be of interest to researchers and engineers involved in geotechnical mechanics and geo engineering *The Journal of Canadian Petroleum Technology* ,2000 **SPE Reservoir Evaluation & Engineering** ,2007 Chemical Engineering Education ,1998 **The Cumulative Book Index** ,1996 A world list of books in the English language Petrophysics ,2000 Gas Abstracts ,1994 Coalbed Methane ,2007 With today s heightened environmental awareness decreased domestic oil production and increased consumer demand for energy the timing is right for the coalbed methane process In this 2nd edition of *Coalbed Methane Principles and Practices* Halliburton engineers Ramurthy Rodvelt and Mullen update and add valuable information on reservoir analysis well construction formation evaluations logging completions and hydraulic fracturing technology for successssful coalbed methane production Back cover □□□□□□ ,2000

Coal Bed Methane Pramod Thakur,Steven J. Schatzel,Kashy Aminian,2014-06-14 *Coal Bed Methane From Prospect to Pipeline* is the proceedings of the 25th anniversary of the North American Coal Bed Methane Forum It provides the latest advancements in the production of coal bed methane covering a variety of topics from exploration to gas processing for commercial utilization Additionally it presents the origin of gas in coal reservoir engineering control of methane in coal mines production techniques water management and gas processing The vast coal resources in the United States continue to produce tremendous amounts of natural gas contributing to a diverse range energy assets Following a rapid advancement and subsequent plateau in technological developments this book captures the full life cycle of a well and offers petroleum geologists and engineers a single source of a broad range of coal bed methane applications This book addresses crucial technical topics including exploration and evaluation of coal bed reservoirs hydraulic fracturing of CBM wells coal seam degasification and production engineering and processing among others It also covers legal issues permitting and economic analysis of CBM projects Edited by a team of coal bed methane experts from industry academia and government who have more than 75 years of combined experience in the field Authored by well recognized members of the gas and coal industry universities US government departments such as the Department of Energy and the National Institute of Occupational Safety and Health NIOSH More than 200 figures photographs and illustrations aid in the understanding of the fundamental concepts Presents the full scope of improvements in US energy independence coal mine safety and greenhouse gas emissions

Coalbed Methane: Scientific, Environmental and Economic Evaluation M. Mastalerz,M. V. Glikson,Suzanne D. Golding,2013-03-09 Coalbed gas has been considered a hazard since the early 19th century when the first mine gas explosions occurred in the United States in 1810 and France in 1845 In eastern Australia methane related mine disasters occurred late in the 19th century with hundreds of lives lost in New South Wales and as recently as 1995 in Queensland s Bowen Basin Ventilation and gas drainage technologies are now in practice However coalbed methane recently is becoming more recognized as a potential source of energy rather than emitting this gas to the atmosphere during drainage of gassy mines it can be captured and utilized Both economic and environmental concerns have sparked this impetus to capture

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Coal Bed Methane Pramod Thakur, Steven J. Schatzel, Kashy Aminian, Gary Rodvelt, Morgan H. Mosser, Joseph S. D'Amico, 2020-04-03 Coal Bed Methane Theories and Applications Second Edition captures the full lifecycle of a coal bed methane well and offers petroleum geologists and engineers a single source for a broad range of coal bed methane CBM applications The vast coal resources in the United States continue to produce tremendous amounts of natural gas contributing to a diverse range of energy assets This book addresses crucial technical topics including exploration and evaluation of coal bed reservoirs hydraulic fracturing of CBM wells coal seam degasification and production engineering and processing among others The book also covers legal issues and permitting along with an economic analysis of CBM projects This new edition includes information on new and established research and applications making it relevant for field geologists and engineers as well as students

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