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**Coalbed Methane  
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**"This straightforward  
introduction to coalbed**

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**methane gives insight and detail to industry professionals involved with this unique energy resource. Author John Seidle reviews global and U.S. coals and coalbed methane resources, takes the reader**

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**through the fundamentals of coal and its importance to coal gas production, and finishes with a discussion of the calculation of probabilistic coalbed methane reserves and pilot philosophy." "In this long-**

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**awaited book, Seidle also  
examines coal deposits as  
reservoirs, discusses the  
physics of gas storage in coal  
and its production, and covers  
basic equations of mass  
balance and production rates,**

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**negative decline, simulation of coal gas recovery, and enhanced coalbed methane recovery."--Back cover.**

**This book offers a first-of-its-kind, standalone review of coalbed methane (CBM) in**

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**India, covering all the major technical and policy aspects. As an authoritative text on CBM in India, it addresses the essential geological, engineering and policy issues. The Coalbed Methane industry**

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**is a rapidly developing sector in Indian energy supply. The book presents the characteristics of coal beds in India's Damodar and Son river valleys, which influence the commercial viability of CBM in**

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**the regions, as well as a study of the gas contents of the country's major coalfields. The book begins with a brief review of methane emissions from Indian coal mines and the current coalbed methane**



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**situation in the country. Its  
unique features include a  
coalfield-by-coalfield technical  
assessment of CBM  
throughout India. Policy  
matters are addressed,  
including the National**

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**Exploration Licencing Policy  
(NELP) of the Indian  
Government Ministry of  
Petroleum and Natural Gas,  
which is vital to an overall  
understanding of CBM  
development in the country.**

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**The scope and depth of its book's coverage will benefit students, practising engineers, researchers and policy-makers. Coalbed Methane Principles and Practice Prentice Hall Computer Methods and Recent**

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**Advances in Geomechanics  
Carbon Dioxide Capture and  
Storage  
Coalbed Methane in India  
Coalbed Methane  
Special Report of the  
Intergovernmental Panel on**

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**Climate Change**

**June 11- 17, 1999, Rolla,  
Missouri**

The book is an outcome of the author ' s active professional involvement in research, manufacture and consultancy in the field of cement

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chemistry and process engineering. This multidisciplinary title on cement production technology covers the entire process spectrum of cement production, starting from extraction and winning of natural raw materials to the finished products including the environmental

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impacts and research trends. The book has an overtone of practice supported by the back-up principles.

This book is open access under a CC BY 4.0 license. This book examines how China can increase the share of natural gas in its energy system. China ' s energy

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strategy has global ramifications and impact, and central to this strategy is the country ' s transition from coal to gas. The book presents the culmination of a two-year collaboration between the Development Research Center of the State Council (DRC) and Shell. With the



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Chinese government's strategic aim to increase the share of gas in the energy mix from 5.8% in 2014 to 10% and 15% in 2020 and 2030 respectively, the book outlines how China can achieve its gas targets. Providing both quantifiable metrics and policy measures for the

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transition, it is a much needed addition to the literature on Chinese energy policy. The research and the resulting recommendations of this study have fed directly into the Chinese government ' s 13th Five-Year Plan, and provide unique insights into the Chinese government

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and policy-making. Due to its global impact, the book is a valuable resource for policy makers in both China and the rest of the world.

IPCC Report on sources, capture, transport, and storage of CO<sub>2</sub>, for researchers, policy-makers and

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United States Reports  
Principles and Practice  
Fundamentals of Enhanced Oil and Gas  
Recovery from Conventional and  
Unconventional Reservoirs  
The Journal of Canadian Petroleum

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Technology

Gas Turbine Handbook

Cement Production Technology

***Methane stored in  
coalbeds has emerged as  
an energy source that  
offers a viable alternative***

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***to fossil fuels. This  
reference discusses the  
principles of methane  
storage in coal and the  
practices of producing  
the methane  
economically, and***

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***provides an analysis of the coalbed methane process.***

***Provides comprehensive information about the key exploration, development and***

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***optimization concepts  
required for gas shale  
reservoirs Includes  
statistics about gas shale  
resources and countries  
that have shale gas  
potential Addresses the***



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***challenges that oil and  
gas industries may  
confront for gas shale  
reservoir exploration and  
development Introduces  
petrophysical analysis,  
rock physics,***

*Page 25/151*

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***geomechanics and  
passive seismic methods  
for gas shale plays  
Details shale gas  
environmental issues and  
challenges, economic  
consideration for gas***

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***shale reservoirs Includes  
case studies of major  
producing gas shale  
formations***

***Coal will continue to  
provide a major portion  
of energy requirements in***

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***the United States for at least the next several decades. It is imperative that accurate information describing the amount, location, and quality of the coal resources and***

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***reserves be available to  
fulfill energy needs. It is  
also important that the  
United States extract its  
coal resources efficiently,  
safely, and in an  
environmentally***

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***responsible manner. A renewed focus on federal support for coal-related research, coordinated across agencies and with the active participation of the states and industrial***

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***sector, is a critical  
element for each of these  
requirements. Coal  
focuses on the research  
and development needs  
and priorities in the areas  
of coal resource and***

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***reserve assessments,  
coal mining and  
processing,  
transportation of coal  
and coal products, and  
coal utilization.  
Volume 1: Fundamentals***

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***and Non-Renewable  
Resources***

***Environmental Impact  
Assessments and  
Mitigation***

***A Sourcebook for  
Understanding the***

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***Extractive Industries  
Coalbed Methane in China  
The Composition of  
Coalbed Gas***

Environmental Impact  
Assessments and Mitigation  
examines various assessments

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for developmental projects in the housing, mining, energy, and waste management areas. As the world continues to shift toward concerns over climate change and environmental protection issues, developmental

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projects must have environmental impact assessments (EIA) conducted as well as environmental management plans (EMP). This book describes how all phases of a project, from planning, to

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operation, to post operation, must consider potential environmental impacts and their mitigation. Features: Presents numerous sustainable development considerations for key industries Discusses how

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environmental impact assessments are prepared for each stage of a project  
Describes different environmental management plans for established projects  
Offers mitigation plans for

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various potential environmental impacts Includes practical examples from the construction, manufacturing, transport, and mining industries Useful for practicing professional engineers as well as upper-level students,

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this book covers all aspects of environmental impact assessments from start to finish. This book discusses how Coal Bed Methane (CBM) could help the acceleration of the energy transition in a 'just' way in



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Indonesia, due to the country's potential CBM reserves (and current dependence on climate damaging coal). Developing countries face multiple challenges in achieving their energy transitions. CBM in

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Indonesia could potentially be a catalyst for energy transition and subsequently improve access to energy. However, CBM faces numerous challenges and although Indonesia first developed its domestic CBM

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sector over more than a decade ago, they are still to implement this successfully. This book exposes the challenges and opportunities of CBM, exploring what lessons other countries could learn from Indonesia to

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improve the industry with a view to achieving energy transition and climate change targets. This book will be an invaluable reference for researchers and practitioners working in this field. Oil, Gas, and Mining: A

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Sourcebook for Understanding the Extractive Industries provides developing countries with a technical understanding and practical options around oil, gas, and mining sector development issues. A central premise of the

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Sourcebook is that good technical knowledge can better inform political, economic, and social choices with respect to sector development and the related risks and opportunities. The guidance provided by the

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Sourcebook assumes a broad set of overarching principles, all centered on good governance and directed at achieving positive and broadly based sustainable development outcomes. This Sourcebook is

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rich in presenting options to challenges, on the understanding that contexts and needs vary, and that there is much to be gained from appreciating the lessons learned from a broad set of experiences.



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*engineer can easily install in a  
Windows operating environment.  
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the well can be tapped and feeds this  
to the engineer in dynamic 3D  
perspective. This completely new  
software is much more functional,  
with better graphics and more*

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*scenarios from which the engineer can generate simulations. BENEFIT TO THE READER: This book and software helps the reservoir engineer do his or her job on a daily basis, better, more economically, and more efficiently. Without simulations, the reservoir engineer would not be able*

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*generally believed to be the best long-term source of green energy—hydrogen. Water for Energy and Fuel Production explores the many roles of water in the energy and fuel industry. The text not only discusses water's use as a direct source of energy and fuel—such as*

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*hydrogen from water dissociation, methane from water-based clathrate molecules, hydroelectric dams, and hydrokinetic energy from tidal waves, off-shore undercurrents, and inland waterways—but also: Describes water's benign application in the production of oil, gas, coal,*

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*uranium, biomass, and other raw fuels, and as an energy carrier in the form of hot water and steam Examines water's role as a reactant, reaction medium, and catalyst—as well as steam's role as a reactant—for the conversion of raw fuels to synthetic fuels Explains how*



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*supercritical water can be used to convert fossil- and bio-based feedstock to synthetic fuels in the presence and absence of a catalyst*  
*Employing illustrative case studies and commercial examples, Water for Energy and Fuel Production demonstrates the versatility of water*

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*as a provider of energy and fuel, conveying the message that as energy demand and environmental concerns grow, so should our vigilance in pursuing the role of water in the energy landscape. In the lifetimes of the authors, the world and especially the United*

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*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*

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*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*

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*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*

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*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*

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*embargo was lifted, the world chose to ignore the “wake-up call” and went on with business as usual.*

*Petroleum Engineering Handbook  
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Simulation*

*Opportunities, Issues and Challenges  
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This volume provides detailed guidance for all those involved in the drafting, negotiating or



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interpretation of natural gas trading and transportation contracts. It identifies the legal and commercial issues involved at each stage and advises on how they should be handled in the contract.

Advanced Reservoir Engineering

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offers the practicing engineer and engineering student a full description, with worked examples, of all of the kinds of reservoir engineering topics that the engineer will use in day-to-day activities. In an industry where there is often a

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lack of information, this timely volume gives a comprehensive account of the physics of reservoir engineering, a thorough knowledge of which is essential in the petroleum industry for the efficient recovery of hydrocarbons. Chapter one deals

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exclusively with the theory and practice of transient flow analysis and offers a brief but thorough hands-on guide to gas and oil well testing. Chapter two documents water influx models and their practical applications in conducting

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comprehensive field studies, widely used throughout the industry. Later chapters include unconventional gas reservoirs and the classical adaptations of the material balance equation. \* An essential tool for the petroleum and reservoir engineer,

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offering information not available anywhere else \* Introduces the reader to cutting-edge new developments in Type-Curve Analysis, unconventional gas reservoirs, and gas hydrates \*

Written by two of the industry's best-

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known and respected reservoir engineers

Many oil production processes present a significant challenge to the oil and gas field processing facilities and equipment design. The optimization of the sequential

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operations of handling the oil-gas mixture can be a major factor in increasing oil and gas production rates and reducing operating costs. Petroleum and Gas Field Processing provides an all-inclusive guide to surface petroleum operations and



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solves these and other problems encountered in the field processing of oil and gas. Fully revised and updated to reflect major changes over the past decade or so, this second edition builds on the success attained in the first edition. It

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delivers an expanded and updated treatment that covers the principles and procedures related to the processing of reservoir fluids for the separation, handling, treatment, and production of quality petroleum oil and gas products. With five new

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chapters, this second edition covers additional subjects, in particular natural gas, economics and profitability, oil field chemicals, and piping and pumps. The book also contains worked-out examples and case studies from a variety of oil field

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Fundamentals of Coalbed Methane Reservoir Engineering  
Hazardous Gases Underground  
Petroleum and Gas Field Processing  
Proceedings of the 8th US Mine Ventilation Symposium

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Cases Adjudged in the Supreme  
Court at ... and Rules Announced at

..

Best Practice Guidance for Effective  
Methane Recovery and Use from  
Abandoned Coal Mines  
Coal production,

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transportation, storage and use account for roughly 40% of global greenhouse gas emissions. Methane, which is a potent greenhouse gas with a

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100-year global warming potential 25 times that of carbon dioxide (CO<sub>2</sub>) and a 100-year global temperature potential 6-fold greater than CO<sub>2</sub>, once released from coal

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seams in which it is trapped creates number of problems even after cessation of mining activities. Following mine closure, methane emissions decrease, but



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do not stop completely. They initially decline, but can later stabilize and maintain a near-constant rate for an extended period of time. The document presents

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recommended principles and standards for effective methane recovery and use from abandoned coal mines in a clear and succinct way, providing decision-

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makers with a solid base of understanding from which to direct policy and commercial decisions. The Best Practice Guidance does not replace or supersede

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laws and regulations or other legally binding instruments, whether national or international. The principles outlined therein are intended to

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complement existing legal and regulatory frameworks and to support development of safer and more effective practices where industry practice and regulation

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continue to evolve. At the same time, being envisioned primarily as a tool to support performance- and principle-based regulatory programmes,

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the Best Practice Guidance can also complement more prescriptive regulation and support transition to performance-based regulation.

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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



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advancements in the production of coal bed methane covering a variety of topics, from exploration to gas processing, for commercial utilization.

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Additionally, it presents the origin of gas in coal, reservoir engineering, control of methane in coal mines, production techniques, water management, and

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gas processing. The vast coal resources in the United States continue to produce tremendous amounts of natural gas, contributing to a diverse range energy

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assets. Following a rapid advancement and subsequent plateau in technological developments, this book captures the full life cycle of a well and

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offers petroleum geologists and engineers a single source of a broad range of coal bed methane applications. This book addresses crucial technical

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topics, including  
exploration and  
evaluation of coal bed  
reservoirs; hydraulic  
fracturing of CBM wells;  
coal seam  
degasification; and

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production engineering  
and processing, among  
others. It also covers  
legal issues,  
permitting, and economic  
analysis of CBM  
projects. Edited by a

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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-



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recognized members of the gas and coal industry, universities, US government departments, such as the Department of Energy and the National Institute

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of Occupational Safety  
and Health (NIOSH) More  
than 200 figures,  
photographs, and  
illustrations aid in the  
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Chemical Methods, a new  
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smart water injection  
and ionic liquids for  
EOR. Supported field  
case studies illustrate

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approach that addresses  
the latest research on  
various types of EOR.  
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spectrum of  
contributors, this book  
gives petroleum



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engineers and  
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developments and field  
applications to drive  
innovation for the  
future of energy.  
Presents the latest

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research and practical applications specific to chemical enhanced oil recovery methods Helps users understand new research on available technology, including

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chemical flooding  
specific to  
unconventional  
reservoirs and hybrid  
chemical options  
Includes additional  
methods, such as data

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mining applications and  
economic and  
environmental  
considerations  
SPE Reservoir Evaluation  
& Engineering  
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Oil and Gas Production  
Handbook: An  
Introduction to Oil and  
Gas Production  
Coal  
Water for Energy and  
Fuel Production

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The case of Indonesia

The coalbed methane (CBM) reserve in China ranks third in the world with a total resource of  $36.8 \times 10^{12}$  m<sup>3</sup>. Exploitation of CBM has an important practical

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significance to ensure the long-term rapid development of China natural gas industry. Therefore, in 2002, the Ministry of Science and Technology of China set up a national 973 program to study

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CBM system and resolve problems of CBM exploration and exploitation in China. All the main research results and new insights from the program are presented in this book. The book is divided into



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11 chapters. The first chapter mainly introduces the present situation of CBM exploration and development in China and abroad. Chapters 2 through 9 illustrate the geological theory and prospect

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evaluation methods. Then chapters 10 and 11 discuss CBM recovery mechanisms and technology. The book systematically describes the origin, storage, accumulation and emission of CBM in

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China, and also proposes new methods and technologies on resource evaluation, prospect prediction, seismic interpretation and enhanced recovery. The book will appeal to geologists, lecturers

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and students who are  
involved in the CBM industry  
and connected with coal and  
conventional hydrocarbon  
resources research.

Fundamentals of Enhanced Oil  
and Gas Recovery from

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Conventional and  
Unconventional Reservoirs  
delivers the proper  
foundation on all types of  
currently utilized and  
upcoming enhanced oil  
recovery, including methods

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used in emerging unconventional reservoirs. Going beyond traditional secondary methods, this reference includes advanced water-based EOR methods which are becoming more

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popular due to CO<sub>2</sub> injection methods used in EOR and methods specific to target shale oil and gas activity. Rounding out with a chapter devoted to optimizing the application and economy of

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EOR methods, the book brings reservoir and petroleum engineers up-to-speed on the latest studies to apply. Enhanced oil recovery continues to grow in technology, and with ongoing



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unconventional reservoir  
activity underway, enhanced  
oil recovery methods of many  
kinds will continue to gain in  
studies and scientific  
advancements. Reservoir  
engineers currently have

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multiple outlets to gain  
knowledge and are in need of  
one product go-to reference.  
Explains enhanced oil  
recovery methods, focusing  
specifically on those used for  
unconventional reservoirs

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Includes real-world case studies and examples to further illustrate points  
Creates a practical and theoretical foundation with multiple contributors from various backgrounds Includes

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a full range of the latest and  
future methods for enhanced  
oil recovery, including  
chemical, waterflooding, CO<sub>2</sub>  
injection and thermal  
"Volume VI, Emerging and  
peripheral technologies"

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covers technologies that have come to the forefront of the industry in the past twenty years. Developments that are on the periphery of the areas covered in the first five volumes or in emerging areas

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of technology are covered in  
this volume.

Coal and Coalbed Gas  
Chemical Methods

Progressive Technologies of  
Coal, Coalbed Methane, and  
Ores Mining

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Research and Development to  
Support National Energy  
Policy

Reports of Cases Argued and  
Determined in the Supreme  
Court of the State of Kansas.  
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pages + full paper USB-drive 2052 pages) of the 14th International Conference of the International Association for Computer Methods and Advances in Geomechanics (Kyoto, Japan, 22-25 September, 2014). The contributions cover computer methods, material m

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Presenting new technologies in underground coal extraction, with special attention to mine galleries support and maintenance, load mechanism of "massif-support system-safety system" systems, analysis of face equipment for thin coal seams mining and substantiation

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of rational stoping parameters. Advanced surface mining technologies of coal and ore are discussed in an original form, stability calculations of internal dumps and open-cut faces are presented, as well as examination of land surface subsidence using

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modern methods of calculation experiments. Special attention is given to the complex mining of mineral resources, such as: iron ore, coal deposits with drilling advance degassing wells, methane extraction from coal and anthropogenic deposits, heat receipt from mine

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water with help of thermal pumps.  
The unique geological conditions for  
mining in Poland and the Ukraine  
require a new technological  
approach for mining thin and very  
thin coal seams with thickness of 1  
meter and less, using selective coal  
extraction methods, leaving rock

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behind in the mine. Relevant technological solutions are discussed in this volume. Further, technological process control during coal seams underground gasification is described together with pressure-temperature conditions of gas hydrates formation from gaseous

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mixtures of various content.

Substantiation is also given to gas hydrates extraction technologies development and 21st century new pulse technologies of well drilling and a temperature mode of a rock-cutting tool and equipment with cryogenic-gravel filters is examined.

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Gas extraction processes located in flooded deposits with uniform and macroheterogeneous collectors are presented with the description of an effective methodology of two-subbench technology of ore deposits extraction.

Applies detailed knowledge toward



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the design and construction of  
underground civil works projects.  
Develops critical skills for managing  
risk and designing reliable gas  
control measures within project time  
and cost constraints.

Cases and Materials

China's Gas Development Strategies

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Applications to Tunnel Engineering  
Official Reports of the Supreme  
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Fueling the Future

Sustainable Geoscience for Natural  
Gas SubSurface Systems

Bridging the gap in expertise

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between coal and coalbed gas, subfields in which opportunities for cross training have been nonexistent, Coal and Coalbed Gas sets the standard for publishing in these areas. This book treats coal and coalbed gas

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as mutually inclusive commodities in terms of their interrelated origin, accumulation, composition, distribution, generation, and development, providing a balanced understanding of this energy mix.

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Currently considered a non-renewable energy resource, coalbed gas, or coalbed methane, is a form of natural gas extracted from coal beds. In recent years, countries have begun to seek and exploit coal

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for its clean gas energy in an effort to alleviate environmental issues that come with coal use, making a book on this topic particularly timely. This volume takes into account processes of coalification, gasification, and

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storage and reservoir characterization and evaluation and looks at water management and environmental impacts as well. Covers environmental issues in the development of coalbed gas Includes case

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studies, field guides and data, examples, and analytical procedures from previous studies and investigations Accessible by a large multidisciplinary market by one of the world's foremost experts



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on the topic

Sustainable Geoscience for Natural Gas SubSurface Systems delivers many of the scientific fundamentals needed in the natural gas industry, including coal-seam gas

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reservoir characterization and fracture analysis modeling for shale and tight gas reservoirs. Advanced research includes machine learning applications for well log and facies analysis, 3D gas property geological

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Helps readers understand advanced topics, including machine learning applications to optimize predictions, controls and improve knowledge-based applications Provides tactics to accelerate emission reductions

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Teaches gas fracturing mechanics aimed at reducing environmental impacts, along with enhanced oil recovery technologies that capture carbon dioxide

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