



Coal and Coalbed Gas: Fueling the Future

By Romeo M. Flores



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

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 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 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 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 on the topic



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Editorial Review

Review

"Flores presents this industrial guide to coal and coalbed gas, aiming to balance the availability of coal as a resource with associated environmental concerns. After introducing principles of coal discovery and usage, the multipotency of coal as an energy source is discussed. Several chapters address the production of gas from coal, including necessary conditions and the chemistry and geology of coal maturity."--**ProtoView.com, February 2014** *"It's an amazingly broad book and covers the fundamentals of coal formation, its geology, utilization and, quite importantly, how coal acts as a reservoir for gas... For all the students and especially the engineers out there, I'd go further than saying it is an essential book to have, I'd have to insist that it is mandatory."*--**CipherCoal.com, November 21, 2013** "It is rare for a book to be so comprehensive on such a diverse topic such as coal. I'd recommend this for both the seasoned coal professional as well as the newly initiated."?Dr. Tim A. Moore, Managing Director, Cipher Consulting Ltd, New Zealand "[Coal and Coalbed Gas] is a very much anticipated book... in that it provides a complete, comprehensive review of coal from genesis to coalbed gas resource management, something that was lacking in single, publically available publications...."?Russell Stands-Over-Bull, PhD, Sr. Geologic Advisor, Anadarko Petroleum Corporation, USA "Romeo Flores is a world-leading expert on coal geology... [T]here has not been an authoritative book on coalbed methane, until now."?Dr. David B. Rutledge, California Institute of Technology, USA "Dr. Romey Flores is a world-class expert in coal geology, coalbed methane, and a pioneer in biogenic CBM.... This is a must-read book for scientists, engineers, and managers involved in coal and CBM."?Dr. Song Jin, President and CTO, Next Fuel Inc., USA "[Flores] has clearly explained the widespread application of the fundamentals of coal geology in the exploration of coalbed methane.... A textbook of this kind that synthesizes various aspects of geology, geochemistry and reservoir properties of coal has been long overdue."?Dr. Mohinudeen Faiz, Principal Geologist, Origin Energy, Australia "[This book] presents a well-balanced, up-to-date... discussion of both disciplines [coal geology and coalbed gas] in terms of the science and technology, including recent experiments to generate biogenic gas from microbial activity."?Dr. Frank G. Etheridge, Professor Emeritus, Colorado State University, USA

From the Back Cover

Coal and Coalbed Gas: Fueling the Future is one of the only books to address combined coal and coalbed gas, its environmental impacts, and its role in our future energy. This book sets the standard by bridging the gap in expertise between coal and coalbed gas, in which opportunities for cross-training have been nonexistent. This book treats coal and coalbed gas as mutually inclusive commodities in terms of their interrelated origin, accumulation, composition, distribution, generation, and development, providing a balanced understanding of this energy mix.

This book is particularly timely as developing countries have begun to exploit coal for its clean gas energy in an effort to alleviate environmental issues that come with coal use. *Coal and Coalbed Gas* takes into account the processes of peatification, coalification, gasification, and storage and reservoir characterization and evaluation and looks at water management and environmental impacts as well. The book insightfully assesses the potential of biogenic coalbed gas as a viable energy of the future.

Key Features:

- International relevance in anticipation of short- and long-term use of coal and coalbed gas

- Covers environmental issues in the development of coal and coalbed gas
- Includes case studies, field guides and data, examples, and analytical procedures from previous studies and investigations
- Accessible to a large multidisciplinary market

About the Author

Dr. Romeo M. Flores is a consulting geologist and conducts assessments, workshops/lectures, and field trips on coal and coalbed gas for energy companies and scientific organizations. He is an Associate with Cipher Coal Consulting, consulting, advising, lecturing, and training personnel/staff of clients on assessments of coal and coalbed gas. Expert member of Science Advisory Board/Technical Consultant with Next Fuel Inc. advising and providing expertise on coal and biogenic gas in projects on sustaining gas production in low rank coals worldwide. Scientist with AECOM Technical Services Inc. advising AECOM/BLM on hydrostratigraphic modeling of groundwater using coalbed gas wells in the Powder River Basin, Wyoming. Consultant with Mitchell (Beijing) Energy Technology Services Ltd Co. (China) on shale gas. He has advised and conducted workshops on coal reservoirs as well as conducted field trips in the Powder River Basin for the CBM Group of Anadarko Petroleum Corporation (Denver, Colorado). Carried out lectures and advised on shale gas for Chongqing Energy Group (China). Consulted and conducted lectures/workshops on coal, coalbed gas, and biogenic gas for Shanxi Lanyan Coalbed Methane Group Co., Ltd (China). Trained/lectured on coal and coalbed gas for the staff of Ephindo CBM Energy (Indonesia).

Dr. Flores is a retired Research Scientist of the United States Geological Survey (USGS) where he assessed and investigated coal and coalbed methane resources in the United States from 1975 to 2010. He was project chief and group leader managing estimation of coal and coalbed methane reserves in the conterminous U.S. and Alaska coal basins. He worked with State Geological Surveys, Federal Agencies, and coal mining and coalbed methane companies to implement the USGS National Coal, Oil, and Gas Assessments Programs.

Dr. Flores managed Technical Assistance projects on coal and coalbed methane in Belgium, Brazil, Colombia, Chile, China, Indonesia, New Zealand, Philippines, and South Africa. He advised and trained staff of foreign government and non-governmental agencies to explore, develop, and commercialize coal and coalbed methane.

Dr. Flores authored over 500 publications in national and international scientific journals, edited 15 special journal volumes, and presented over 250 talks at national and international scientific conferences. He graduated BS from University of the Philippines, MS from Tulsa University, and PhD from Louisiana State University. He is a recipient of the U.S. Department of Interior Meritorious Service Award and Distinguished Service Award, Geological Society of America Gilbert Cady Goal Geology Award, University of the Philippines Distinguished Alumni in Geology Award, and a Erskine Fellow of the University of Canterbury, New Zealand. He is a member of the Editorial Board of the International Journal of Coal Geology for two decades.

Users Review

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