

The Boom How Fracking Ignited The American Energy

The BoomFrackingEncyclopedia of Technological Hazards and Disasters in the Social SciencesThe Reality of American EnergyEnvironmental Considerations Associated with Hydraulic Fracturing OperationsWater in North American Environmental HistoryFrackingArkansas Law ReviewAnthropoceneBritannica Book of the YearThe EconomistThe NALCO Water Handbook, Fourth EditionWest Virginia Law ReviewThe Honors JournalStrategic Issues Facing TransportationSynthetic FuelsMarks' Standard Handbook for Mechanical Engineers, 12th EditionThe Rational Use of EnergyThe Rational Use of Energy and Alternatives SourcesProceedings of the Eighth Underground Coal Conversion Symposium Russell Gold Anne C. Cunningham Duane A. Gill Ryan M. Yonk James A. Jacobs Martin V. Melosi David E. Newton Andrea Kunard Compy Ecolab Company Compy NALCO Water Paul Sorensen G. Beghi Ali M. Sadegh

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presents an unstinting exploration of controversial fracking technologies to consider the arguments of its supporters and detractors profiling key contributors while explaining how the practice is changing the way energy is used

on the surface fracking or hydraulic fracturing seems like a perfect solution to the country's energy crises it is a relatively easy and independent way to supply natural gas but controversies surround the practice the process involved in fracking has been shown to be harmful to the environment and a threat to our public health do the benefits of fracking outweigh the costs can improvements be made to the process that would eliminate its dangers should the government get more involved in regulating fracking or should it be up to the people

the encyclopedia of technological hazards and disasters in the social sciences brings together an array of global experts to investigate explore and analyse human caused disaster events providing insights into both the origins and aftermaths of disaster events it offers advanced understanding of a broad range of disaster events facing society during the anthropocene

this book dispels common myths about electricity and electricity policy and reveals how government policies manipulate energy markets create hidden costs and may inflict a net harm on the american people and the environment climate change energy generation and use and environmental degradation are among the most salient and controversial political issues today our country's energy future will be determined by the policymakers who enact laws that favor certain kinds of energy production while discouraging others as much as by the energy production companies or the scientists working to reduce the environmental impact of all energy production the reality of american energy the hidden costs of electricity provides rare insights into the politics and economics surrounding electricity in the united states it identifies the economic physical and environmental implications of distorting energy markets to limit the use of fossil fuels while increasing renewable energy production and explains how these unseen effects of favoring renewable energy may be counterproductive to the economic interests of american citizens and to the protection of the environment the first two chapters of the book introduce the subject of electricity policy in the united states and to enable readers to understand why policymakers do what they do the remainder of the book examines the realities of the major electricity sources in the united states coal natural gas nuclear hydrodynamic wind biomass solar and geothermal each of these types of energy sources is analyzed in a dedicated chapter that explains how the electricity source works and identifies how politics and public policy shape the economic and environmental impacts associated with them

a guide to environmental and communication issues related to fracking and the best approach to protect communities environmental considerations associated with hydraulic fracturing operations offers a much needed resource that explores the complex challenges of fracking by providing an understanding of the environmental and communication issues that are inherent with hydraulic fracturing the book balances the current scientific knowledge with the uncertainty and risks associated with hydraulic fracking in addition the authors offer targeted approaches for helping to keep communities safe the authors include an overview of the historical development of hydraulic fracturing and the technology currently employed the book also explores the risk prevention and mitigation factors that are associated with fracturing the authors also include legal cases regulatory issues and data on the cost of recovery the volume presents audit checklists for gathering critical information and documentation to support the reliability of the current environmental conditions related to fracking operations and the impact fracking can have on a community this vital resource contains the technical information and mitigation recommendations for safety and environmental issues related to hydraulic fracturing offers an historical overview of conventional and unconventional oil and gas drilling explains the geologic and technical issues associated with fracking of tight sand and shale formulations presents numerous case studies from the united states epa and other agencies discusses issues of co produced waste water and induced seismicity from the injection of wastewater written for environmental scientists geologists engineers regulators city planners attorneys foresters wildlife biologists and others environmental considerations associated with hydraulic fracturing operations offers a comprehensive resource to the complex environmental and communication issues related to fracking

water in north american environmental history offers 25 cases studies that explore the range of uses and perceptions of water throughout canadian mexican and united states history water has served a myriad of purposes historically as human sustenance agricultural irrigation sanitation fire protection military defense power generation transportation and much more water and its uses provide an excellent entrée into the study of humans and the environment not only because water is a vital resource for life but also because water as a medium is so intimately woven into the everyday experiences of humans and into society s economic political and social fabric a north american perspective is not representative of the world s water use but it is an area with a linked history and many overlapping human and environmental features and concerns with a

continental perspective the book explores many disparate topics without being confined to the history and experiences of just one country the chapters are short but descriptive and departure points for what they tell us about the human experience in dealing with water and the environmental implications of water use the text leads students to consider water in relation to society and to the past the book will be of interest to students of environmental history geography and the environmental sciences

the use of fracking is a tremendously important technology for the recovery of oil and gas but the advantages and costs of fracking remain controversial this book examines the issues and social economic political and legal aspects of fracking in the united states hydraulic fracturing of oil and gas wells known commonly as fracking has been in use in the united states for more than half a century in recent years however massive expansion of shale gas fracturing across the nation has put fracking in the public eye is fracking a win win like its proponents say or are there significant costs and dangers associated with the use of this energy production technology this book examines fracking from all angles addressing the promise of the united states becoming energy independent through the use of the process to tap the massive amounts of natural gas and oil available as well as the host of problems associated with fracking groundwater contamination and increased seismic activity just to mention two that raise questions about the long term feasibility of the process as a source of natural gas the first part of the book provides a historical background of the topic a review of technical information about fracking and a detailed discussion of the social economic political legal and other aspects of the current fracking controversy the second part of the book provides a host of resources for readers seeking to learn even more in depth information about the topic supplying a chronology glossary annotated bibliography and profiles of important individuals and organizations written specifically for students and young adults the content is accessible to readers with little or no previous knowledge regarding fracking

a catalogue to accompany the exhibition anthropocene a collaboration by the artists and filmmakers jennifer baichwal edward burtynsky and nicholas de pencier including film photography virtual reality and augmented reality anthropocene is organized by the art gallery of ontario and the canadian photography institute of the national gallery of canada in partnership with manifattura di arti sperimentazione e tecnologia fondazione mast

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lectures of a course held at the joint research centre ispra may 7 11 1984

the 100th anniversary edition of the bible for mechanical engineers fully revised to focus on the core subjects critical to the discipline this 100th anniversary edition has been extensively updated to deliver current authoritative coverage of the topics most critical to today's mechanical engineer featuring contributions from more than 160 global experts marks standard handbook for mechanical engineers twelfth edition offers instant access to a wealth of practical information on every essential aspect of mechanical engineering it provides clear concise answers to thousands of mechanical engineering questions you get accurate data and calculations along with clear explanations of current principles important codes standards and practices all new sections cover micro and nano engineering robotic vision alternative energy production biological materials biomechanics composite materials engineering ethics and much more coverage includes mechanics of solids and fluids heat strength of materials materials of engineering fuels and furnaces machine elements power generation transportation fans pumps and compressors instruments and controls refrigeration cryogenics and optics applied mechanics engineering ethics

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