

The History Of Mining The Events Technology And People Involved In The Industry That Forged The Modern World

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Evolutionary and Revolutionary Technologies for Mining National Research Council 2002-03-14

The Office of Industrial Technologies (OIT) of the U. S. Department of Energy commissioned the National Research Council (NRC) to undertake a

study on required technologies for the Mining Industries of the Future Program to complement information provided to the program by the National Mining Association. Subsequently, the National Institute for Occupational Safety and Health also became a sponsor of this study, and the Statement of Task was expanded to include health and safety. The overall objectives of this study are: (a) to review available information on the U.S. mining industry; (b) to identify critical research and development needs related to the exploration, mining, and processing of coal, minerals, and metals; and (c) to examine the federal contribution to research and development in mining processes.

Mining in World History Martin Lynch 2004-08-02

This book deals with the history of mining and smelting from the Renaissance to the present. Martin Lynch opens with the invention, sometime before 1453, of a revolutionary technique for separating silver from copper. It was this invention which brought back to life the rich

copper-silver mines of central Europe, in the process making brass cannon and silver coin available to the ambitious Habsburg emperors, thereby underpinning their quest for European domination. Lynch also discusses the Industrial Revolution and the far-reaching changes to mining and smelting brought about by the steam engine; the era of the gold rushes; the massive mineral developments and technological leaps forward which took place in the USA and South Africa at the end of the 19th century; and, finally, the spread of mass metal-production techniques amid the violent struggles of the 20th century. In an engaging, concise and fast-paced text, he presents the interplay of personalities, politics and technology that have shaped the metallurgical industries over the last 500 years.

Technical Innovation in American History: Colonial America to 1865 Rosanne Welch 2019
"Technical innovation in American history surveys the history of technology, documenting the chronological and thematic connections

between specific inventions, technological systems, individuals, and events that have contributed to the history of science and technology in the United States. Covering eras from colonial times to the present day in three chronological volumes, the entries include innovations in fields such as architecture, civil engineering, transportation, energy, mining and oil industries, chemical industries, electronics, computer and information technology, communications (television, radio, and print), agriculture and food technology, and military technology. The A-Z entries address key individuals, events, organizations, and legislation related to themes such as industry, consumer and medical technology, military technology, computer technology, and space science, among others, enabling readers to understand how specific inventions, technological systems, individuals, and events influenced the history, cultural development, and even self-identity of the United States and its people. The information

also spotlights how American culture, the U.S. government, and American society have specifically influenced technological development"--Provided by publisher.

Technology and culture 1986

Technical Innovation in American History: An Encyclopedia of Science and Technology [3 volumes] Rosanne Welch 2019-02-28 From the invention of eyeglasses to the Internet, this three-volume set examines the pivotal effects that inventions have had on society, providing a fascinating history of technology and innovations in the United States from the earliest colonization by Europeans to the present. • Encourages readers to consider the tremendous potential impact of advances in science and technology and the ramifications of important inventions on the global market, human society, and even the planet as a whole • Supports eras addressed in the National Standards for American history as well as curricular units on inventions, discoveries, and technological advances • Includes primary

documents, a chronology, and section openers that help readers contextualize the content

National Register Bulletin 1992

Technical Innovation in American History

Rosanne Welch 2019

Mine Seismology: Data Analysis and

Interpretation S.N. Glazer 2016-04-27

This book offers an in-depth analysis and interpretation methods applicable to mine-induced seismicity. It is based on over 40 years of experience in mine and exploration geophysics. Another unique feature of this book is the complete history of the caving process as evidenced by the recorded seismicity at the South African copper mine Palabora Lift 1. Until now, the literature has only presented theory and case studies discussing the interpretation of results, and there has been no discussion of the input-data quality or why a certain interpretation technique was applied. This book fills that gap. This book is a fascinating read, written by one of the world's leading mine seismologists. It summarises the history and

progression of mine seismology. It outlines the practical use of back analysis of data and how it can be used on a daily basis. The book explains how mine seismology can be used as an effective monitoring tool for key events as the mine progresses as well as for future caving operations. Anthony Allman MAusIMM, CP(Min), RPEQ Antcia Consulting Pty Ltd, Director, Mining Engineer The content of the book is really solid and robust and I have no doubt it is going to be considered a great contribution for the mining community. Raul Fuentes, Former Director of Master Program in Geomechanics Applied to Mining, Universidad de los Andes, Santiago, Chile This book is long overdue and helps to present some difficult concepts in a way that they can be clearly understood by non-experts in this area. Stefan has personally managed to take mine seismology from being a black-art into a useful tool to help make mines a safer and more controlled environment. Neil Hepworth C. Eng, MIMMM, Geomin Consultorio - Brazil, Consultant

Mining and Geotechnics Seismic monitoring is an important tool in cave management. The information from monitoring allows a number of key production factors to be determined including cave advance rates, the approximate location of the cave back, insight into the size of the air gap and allows the tracking of broad changes in stress. These all assist in the day to day management of a safe and successful cave. Dr. Glazer's book provides guidance on the application of microseismicity to cave management through a review of appropriate theory and more importantly illustrates its use through case histories, particularly from the Palabora block cave. The text will be a good addition for all practitioners in cave engineering and operations. Allan Moss, General Manager - Grasberg Underground Liaison, Copper Development, Rio Tinto

Minerva Meets Vulcan: Scientific and Technological Literature - 1450-1750

Wolfgang Lefèvre 2021-06-16 This book offers a

comprehensive study and account of the co-evolution of technological and scientific literature in the early modern period (1450-1750). It examines the various relationships of these literatures in six areas of knowledge - Architecture, Chemistry, Gunnery, Mechanical Engineering, Mining, and Practical Mathematics - which represent the main types of advanced technological and scientific knowledge of the era. These six fields of technologically advanced knowledge and their interrelations and interactions with learned knowledge are investigated and discussed through a specific lens: by focusing on the technological literature. Among present-day historians of science, it hardly remains controversial that contact and exchange between educated and practical knowledge played a significant role in the development of the natural sciences and technology in early modern Europe. Several paths for such exchange arose from the late Middle Ages onward due to the formation of an

economy of knowledge that fostered contacts and exchange between the two worlds. How can this development be adequately described and how, on the basis of such a description, can the significance of this process for the early modern history of knowledge in the West be assessed? These are the overarching questions this book tries to answer. There exists a considerable amount of literature concerning several stations and events in the course of this long development process as well as its various aspects. As meritorious and indispensable as many of these studies are, none of them tried to portray this process as a whole with its most essential branches. What is more, many of them implicitly or explicitly took physics as a model of science, and thus highlighted mechanics and mechanical engineering as the model of all interrelations of practical and learned knowledge. By contrast, this book aims at a more complete portrait of the early modern interrelations and interactions between learned and practical

knowledge. It tries to convey a new idea of the variety and disunity of these relations by discussing and comparing altogether six widely different fields of knowledge and practice. The targeted audience of this book is first of all the historians of science and technology. As one of the peer reviewers suggested – the book could very well become a textbook used for teaching the history of science and technology at universities. Furthermore, since the book addresses fundamental aspects of the significance emergence and development of modern science has for the self-image of the West, it can be expected that it will attract the attention and interest of a wider readership than professional historians.

Technical Innovation in American History: The Cold War to the present Rosanne Welch 2019

"Technical innovation in American history surveys the history of technology, documenting the chronological and thematic connections between specific inventions, technological

systems, individuals, and events that have contributed to the history of science and technology in the United States. Covering eras from colonial times to the present day in three chronological volumes, the entries include innovations in fields such as architecture, civil engineering, transportation, energy, mining and oil industries, chemical industries, electronics, computer and information technology, communications (television, radio, and print), agriculture and food technology, and military technology. The A-Z entries address key individuals, events, organizations, and legislation related to themes such as industry, consumer and medical technology, military technology, computer technology, and space science, among others, enabling readers to understand how specific inventions, technological systems, individuals, and events influenced the history, cultural development, and even self-identity of the United States and its people. The information also spotlights how American culture, the U.S.

government, and American society have specifically influenced technological development"--Provided by publisher.

The History of Mining Michael Coulson 2012 THE INDUSTRY THAT FORGED THE MODERN WORLD Throughout history metals and raw materials have underpinned human activity. So it is that the industry responsible for extracting these materials from the ground - mining - has been ever present throughout the history of civilisation, from the ancient world of the Egyptians and Romans, to the industrial revolution and the British Empire, and through to the present day, with mining firms well represented on the world's most important stock indexes including the FTSE100. This book traces the history of mining from those early moments when man first started using tools to the present day where metals continue to underpin economic activity in the post industrial age. In doing so, the history of mining methods, important events, technological developments, the important firms

and the sparkling personalities that built the industry are examined in detail. At every stage, as the history of mining is traced from 40,000BC to the present day, the level of detail increases in accordance with the greater social and industrial developments that have played out as time has progressed. This means that a particular focus is given to the period since the industrial revolution and especially the 20th century. A look is also taken into the future in an effort to chart the direction this great industry might take in years to come. Many books have been written about mining; the majority have focused on a particular metal, geographical area, mining event or mining personality, but 'The History of Mining' has a broader scope and covers all of these essential and fascinating areas in one definitive volume. *Capital and Colonialism* Klas Rönnbäck
2019-07-11 This book engages in the long-standing debate on the relationship between capitalism and colonialism. Specifically, Rönnbäck and Broberg study the interaction

between imperialist policies, colonial institutions and financial markets. Their primary method of analysis is examining micro- and macro-level data relating to a large sample of ventures operating in Africa and traded on the London Stock Exchange between 1869 and 1969. Their study shows that the relationship between capital and colonialism was highly complex. While return from investing in African colonies on average was not extraordinary, there were certainly many occasions when investors enjoyed high return due to various forms of exploitation. While there were actors with rational calculations and deliberate strategies, there was also an important element of chance in determining the return on investment – not least in the mining sector, which overall was the most important business for investment in African ventures during this period. This book finally also demonstrates that the different paths of decolonization in Africa had very diverse effects for investors.

The Mines of Cornwall and Devon Thomas Spargo
2017-10-13 Excerpt from *The Mines of Cornwall and Devon: Statistics and Observations, Illustrated by Maps, Plans, and Sections of the Several Mining Districts in the Two Countries* The historical events that have occurred within their confines, form as interesting pages in our history as any that compose it. Whether looking into the dim distance of intercourse with Phoenicians and Greeks; the struggles of the middle ages, moral and political; the resistance offered to the tyrannical Norman; the romantic enterprise of Perkin Warbeck; the wars for civil and religious liberty, issuing first in the Commonwealth and then in the Restoration; the landing of the Prince of Orange, and the many incidents of more modern times, the two south-western counties stand out in our history with noble prominence. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work.

Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Shifting Perspectives in Tribal Studies

Maguni Charan Behera 2019-06-25 This book brings together multidisciplinary, desirability and possibility of consilience of borderline studies which are topically diverse and methodologically innovative. It includes contemporary tribal issues within anthropology and other disciplines. In addition, the chapters underline the analytical sophistication, theoretical soundness and empirical grounding in the area of emerging core perspectives in tribal studies. The volume alludes to the emergence of tribal studies as an

independent academic discipline of its own rights. It offers the opportunity to consider the entire intellectual enterprise of understanding disciplinary and interdisciplinary dualism, to move beyond interdisciplinarity of the science-humanities divide and to conceptualise a core of theoretical perspectives in tribal studies. The book proves an indispensable reference point for those interested in studying tribes in general and who are engaged in the process of developing tribal studies as a discipline in particular.

250 Years of Industrial Consumption and Transformation of Nature: Impacts on Global Ecosystems and Life Hubert Engelbrecht

2017-12-20 Anthropogenic changes in the environment, caused by 250 years of economic growth and utilization of fuel and mineral resources, have considerably impacted the natural environment. The resulting physical and chemical alterations to the Earth's sphere and our adaptive responses in the biosphere are detailed in this reference book. Readers will learn

about concepts relevant to Earth's history, the evolution of life, economy, ecology, environmental history, biology, and medicine and how these concepts can be linked to environmental change. The scope of this interdisciplinary work entails to convey the true degree of responsibility for the universal consequences of ecosystem degradation resulting from industrial processing, human consumption and the transformation of natural sites due to industrialization and urbanization. Topics covered in the book include: -ecosystem transformations by natural and anthropogenic forces -the Anthropocene epoch -a short history of industrialization -environmental sites and the impact of socio-economic influences -the current environmental crisis, This textbook is intended for graduate students in economics, civil engineering, architecture, agronomics, forestry, technical and mining sciences, political sciences, business studies and humanities. General readers who wish to understand the basic

philosophy behind environmental studies and their relation to human activity can also benefit from this book.

Mining Techniques Abhay Soni 2021-02-17
Mining techniques have evolved over time, culminating in the well-defined field of “mining science,” which encompasses aspects such as engineering, chemistry, physics, technology, and management, among others. This book explains how mining techniques can be handled and improved further to make mining practices far more productive, safe, and eco-friendly. It is a useful resource for researchers, students, policy formulators, and decision-makers in different areas of mining and engineering.

Making Sense of Mining History Stefan Berger 2019
This book draws together international contributors to analyse a wide range of aspects of mining history across the globe including mining archaeology, technologies of mining, migration and mining, the everyday life of the miner, the state and mining, industrial relations

in mining, gender and mining, environment and mining, mining accidents, the visual history of mining, and mining heritage. The result is a counter balance to more common national and regional case study perspectives.

Willing's Press Guide 2002

Mine Seismology: Seismic Response to the Caving Process S.N. Glazer 2018-08-01
This book presents the results of seismic data analysis and interpretation based on nearly one million seismic events. This seismicity was induced by the caving process in four copper mines, each located on a different continent. The book not only serves as an interpretation guide, it also illustrates the benefits of evaluating data from different mines: How to establish which seismic data base is faulty and why The formation of a universal seismic response to the caving process
Indisputable evidence that hydro-fracturing improves underground safety
This book invites discussion on more general aspects of research, such as: Basic research, applied research and

implementation Predicting mine-induced seismic events Quantitative versus qualitative seismology Research versus pseudo-research What is genuine research? [In the Parlabora Mine] Stefan has demonstrated that [the] use of the seismic system was a very practical means of monitoring the progression of the cave up to and beyond break through into the open pit above. The seismic system was vital in drawing up the undercutting and seismic protocols and determining the maximum potential seismic hazard level. Peter Townsend Retired Mine Manager and Consultant I consider Stefan the pioneer of using microseismic data to provide understanding of the mechanism and progress of cave mining. Science has advanced considerably since the use of less than reliable extensometers to monitor the cave back position and Stefan was leading this advance. (...)This book provides a lot of useful insight[s] in how we can best understand the data that we (...) gather and how to change this data into useful information. Neil

Hepworth C. Eng, MIMMM, Geomin Consultorio - Brazil. Consultant Mining and Geotechnics Stefan mine seismology trilogy is (...) a comprehensive tutoring on how to analyse and interpret mine induced seismicity. This coaching is based on multiple practical examples (...) presented from the problem to be solved [with] input data tests followed by analysis and interpretation. This last is presented with many details that explain the whole process. Mahdi Bayuargo, ST, MAScPT. Duaem Gada Bayuagus Managing Director **An Insider's Guide to the Mining Sector** Michael Coulson 2011-03-02 - In 2003, four mining shares rose over four times in price, with one gaining ten times.- In just the first two months of 2004, 26 mining shares increased more than 20%, with five shares doubling.- Merrill Lynch's World Mining Trust is the UK's best performing fund over the past three years, having risen by over 200 per cent. But is the mining boom about to end? Not according to this book, by Michael Coulson, Chairman of the

Association of Mining Analysts. Coulson argues that, if anything, we are still in the early stages of prolonged strength in mining stocks and despite what some commentators are saying, the boom is far from over. FROM THE BACK COVER The prospect of instant riches gives the mining sector an obvious glamour. And when the mining sector begins to run it can be an awesome sight and the excitement generated can be every bit as seductive and heady as that which enveloped markets during the internet boom. But due to the counter-cyclical nature of many mining stocks, they can also offer a valuable refuge when stock markets turn down. In this book, Michael Coulson gives a masterly overview of the sector, explains both the rewards and the pitfalls of investing in mining shares and argues convincingly that mining should once again form a core sector for all investors. The book is for anyone interested in mining, and particularly mining as an investment. Whilst it contains material which will be useful to even experienced followers of the sector, its

main target is those who are interested in mining but perhaps not particularly familiar with the sector, and would like to know more. All the subjects are covered that are fundamental to acquiring sufficient knowledge about the mining sector to invest in it with confidence. While the mining s

Ocean Mining Report 1977

Guidelines for Identifying, Evaluating and Registering Historic Mining Properties Bruce J. Noble 1992

The UN Global Compact Maria-Alejandra Gonzalez-Perez 2015-01-29 Since the launch of the UN Global Compact, over 12,000 organisations worldwide have voluntarily adopted and promoted its values and Ten Principles. This edited volume brings together international contributions that explore specific implications for business from managerial, legal, behavioural and sociological perspectives.

Understanding ExtrACTIVISM Anna J. Willow 2018-07-27 Understanding ExtrACTIVISM surveys

how contemporary resource extractive industry works and considers the responses it inspires in local citizens and activists. Chapters cover a range of extractive industries operating around the world, including logging, hydroelectric dams, mining, and oil and natural gas extraction. Taking an activist anthropological stance, Anna Willow examines how culture and power inform recent and ongoing disputes between projects' proponents and opponents, beneficiaries and victims. Through a series of engaging case studies, she argues that diverse contemporary natural resource conflicts are underlain by a culturally constituted 'extractivist' mind-set and embedded in global patterns of political inequity. Offering a synthesizing framework for making sense of complex interconnections among environmental, social, and political dimensions of natural resource disputes, Willow reflects on why extractivism exists, why it matters, and what we might be able to do about it. The book is valuable reading for students and researchers in the

environmental social sciences as well as for activists and practitioners.

[The History of Geophysics in Southern Africa](#)
Johan H de Beer 2016-01-25 Geophysics is a comparatively young science which only evolved as a distinct discipline during the 19th century. However, its phenomena (like earthquakes, tsunamis, volcanic eruptions and lightning) had been objects of fear, curiosity and speculation since ancient times. In this book, Johan de Beer and his research team reveal that geophysical activity in South Africa can be traced back to as early as 1488. This is a truly astonishing revelation which deserves to be firmly entrenched as part of the country's proud history. The book also discusses the history and formation of South African geophysical institutions that made a huge and seldom acknowledged contribution to the technological development of southern Africa.

Effects of Strip Mining and Technological Change on Communities and Natural Resources in

Indiana's Coal Mining Region John Conrad Callahan 1971

Bulletin of the Indian Society of Earthquake Technology 1994

A Bibliography of the History of Canadian Science and Technology Arnold E. Roos 1995

Great Events from History Frank Northen Magill 1997 Covers the entire history of North America.

Mining and Green Growth in the EECCA Region Oecd 2019-09-25 For most countries in the Eastern Europe, Caucasus and Central Asia (EECCA) region, mining is an important economic sector that contributes to employment and public revenue. Despite mining's potential to cause long-term negative environmental impacts, governments in the region have a vital role to play in supporting better environmental performance in the sector and ensuring the industry can be a progressive part of a greener economy. This report examines the environmental impacts of mining in the EECCA and provides policy makers with guidance to

reconcile environmental and competitiveness objectives in the mining sector.

Technical Innovation in American History: Reconstruction through World War II Rosanne Welch 2019 "Technical innovation in American history surveys the history of technology, documenting the chronological and thematic connections between specific inventions, technological systems, individuals, and events that have contributed to the history of science and technology in the United States. Covering eras from colonial times to the present day in three chronological volumes, the entries include innovations in fields such as architecture, civil engineering, transportation, energy, mining and oil industries, chemical industries, electronics, computer and information technology, communications (television, radio, and print), agriculture and food technology, and military technology. The A-Z entries address key individuals, events, organizations, and legislation related to themes such as industry, consumer

and medical technology, military technology, computer technology, and space science, among others, enabling readers to understand how specific inventions, technological systems, individuals, and events influenced the history, cultural development, and even self-identity of the United States and its people. The information also spotlights how American culture, the U.S. government, and American society have specifically influenced technological development"--Provided by publisher.

Mass Destruction Timothy J. LeCain 2009-06-22
The place: The steep mountains outside Salt Lake City. The time: The first decade of the twentieth century. The man: Daniel Jackling, a young metallurgical engineer. The goal: A bold new technology that could provide billions of pounds of cheap copper for a rapidly electrifying America. The result: Bingham's enormous "Glory Hole," the first large-scale open-pit copper mine, an enormous chasm in the earth and one of the largest humanmade artifacts on the planet. Mass

Destruction is the compelling story of Jackling and the development of open-pit hard rock mining, its role in the wiring of an electrified America, as well its devastating environmental consequences. Mass destruction mining soon spread around the nation and the globe, providing raw materials essential to the mass production and mass consumption that increasingly defined the emerging "American way of life." At the dawn of the last century, Jackling's open pit replaced immense but constricted underground mines that probed nearly a mile beneath the earth, to become the ultimate symbol of the modern faith that science and technology could overcome all natural limits. A new culture of mass destruction emerged that promised nearly infinite supplies not only of copper, but also of coal, timber, fish, and other natural resources. But, what were the consequences? Timothy J. LeCain deftly analyzes how open-pit mining continues to affect the environment in its ongoing devastation of nature

and commodification of the physical world. The nation's largest toxic Superfund site would be one effect, as well as other types of environmental dead zones around the globe. Yet today, as the world's population races toward American levels of resource consumption, truly viable alternatives to the technology of mass destruction have not yet emerged.

Technological and Economic Assessment of Manganese Nodule Mining and Processing

Arthur D. Little, Inc 1978

History of Engineering and Technology

Ervan G. Garrison 1998-06-29 History of Engineering and Technology provides an illustrated history of engineered technology from the Stone Age to the Nuclear Age. Examining important areas of engineering and technology, this second edition contains: New contributions on Airships and zeppelins Highways and economics Early hydroelectricity Chemical engineering Technology and history Brunel and the Royal Navy Stealth and the submarine

Computer history Deepwater engineering Science fiction and the evolution of modern engineering Art and engineering Electric motors, radio, and batteries Expansion of these existing chapters Mining and the Location of Minerals Water Distribution: Qanots to Acequias Biomedical Engineering Communication Engineering: Shannon to Satellites Personalities and the Auto: Ford and Ferrari Failures in Engineering: Chernobyl, Titanic, Tacoma Narrows, Challenger Cold Fusion, Electric Cars, and Other "Humbug" This introductory book presents the persons, concepts, and events that made salient contributions to the engineering narrative, reporting a compelling story spanning millennia and encouraging a sense of history for its readers.

Mining in Mexico: The El Paso Connection

Interviews explore the development of the mining industry in northern Mexico from the 1930s to the present. Topics include life in mining camps, working conditions, labor unrest,

the function of foreign capital, political events that influenced the industry, and mining technology. These interviews, in both English and Spanish, constitute a significant archive providing rich primary source material to researchers and scholars in a variety of disciplines.

Mining in British Columbia (Classic Reprint)

Thomas Drummond 2017-10-27 Excerpt from Mining in British Columbia The discovery of gold then marks a new era in the history of the country, and though the stirring events of that time are now things of the past, still they are not without interest, for with them began the real history of the province, which, from being a country comparatively unknown, was raised to the dignity of being one of the great gold producing centres of the world. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology

to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Digging Deep Jade Davenport 2013-12-18

Before the advent of the great mineral revolution in the latter half of the 19th century, South Africa was a sleepy colonial backwater whose unpromising landscape was seemingly devoid of any economic potential. Yet lying just beneath the dusty surface of the land lay the richest treasure trove of gold, diamonds, platinum, coal and a host of other metals and minerals that has ever been discovered in one country. It was the discovery and exploitation of first diamonds in 1870 and then gold in 1886 that proved the catalyst to the greatest mineral revolution the

world has ever known, which transformed South Africa into the supreme industrialised power on the African continent. Here for the first time is the complete history of South Africa's phenomenal mineral revolution spanning a period of more than 150 years, from its earliest commercial beginnings to the present day, incorporating seven of the major commodities that have been exploited. *Digging Deep* describes the establishment and unparalleled growth of mining, tracing the history of the industry from its humble beginnings where copper was first mined on a commercial basis in Namaqualand in the Cape Colony in the early 1850s, to the discovery and exploitation of the country's other major mineral commodities. This is also the story of how mining gave rise to modern South Africa and how it compelled the country to develop and progress the way in which it did. It also incorporates the stories of the visionary men - Cecil Rhodes, Alfred Beit, Barney Barnato, Sir Ernest Oppenheimer, Sammy Marks

and Hans Merensky - who pioneered and shaped the development of the industry on which modern South Africa was built.

China the Dragon , a Glimpse of China: Past and Present Jennifer de Lasala 2018-03-29 China, "The Dragon" is based on personal observations combined with intensive research on a wide variety of topics that should appeal to anyone interested in China, past, or present. The technological advances alone are remarkable. The book is divided into four sections, Section: A, China's Ancient Past, and Section: B, Pre-Modern History, and Section: C, China's Artistic Heritage and Section: D, Modern China. This allows the reader to read from start to finish, or choose whatever is of the most interest. The aim of China, "The Dragon" is to broaden knowledge, stir up controversy and stimulate conversation leading to a more enlightened and deeper understanding of China. To offer a comprehensive, interactive, and unbiased approach the author has included hundreds of

books written by a wide variety of authors with opposing ideas, in-depth websites, and hundreds of videos that reference the discussions contained within this book, and more besides. These added resources (books, weblinks and videos) include a section of photos with descriptions thus giving a quick insight into the book's contents-all of which can be found on the author's website, jennifer-delasala-author.com under the heading China, "The Dragon." In fact, these additional resources could be an excellent tool for busy students; and save hours and hours of research. By exploring the many resources, a student can build on what has been provided instead of starting from scratch. In fact, it would take a dedicated student several years to absorb and explore the extensive resources offered in combination with these two books about China. Both books (Book One) China "The Phoenix and The Dragon" and (Book Two) China "The Dragon" should have a wide appeal to the general reader, international travelers, students,

business persons, and those interested in geopolitics and world affairs. The Architecture of Industry Mathew Aitchison 2016-03-16 From the Rust Belt to Silicon Valley, the intersection between architecture and industry has provided a rich and evolving source for historians of architecture. In a historical context, industrial architecture evokes the smoking factories of the nineteenth century or Fordist production complexes of the twentieth century. This book documents the changing nature of industrial building and planning from the end of the nineteenth century to the beginning of the twenty-first century. Drawing on research from the United States, Europe and Australia, this collection of essays highlights key moments in industrial architecture and planning representative of the wider paradigms in the field. Areas of analysis include industrial production, factories, hydroelectricity, aerospace, logistics, finance, scientific research and mining. The selected case studies serve to highlight

architectural and planning innovations in industry and their contributions to wider cultural and societal currents. This richly illustrated collection will be of interest for a wide range of built environment studies, incorporating findings from both historical and theoretical scholarship and design research.

Mineral Resources Manuel Bustillo Revuelta
2017-08-23 This comprehensive textbook covers all major topics related to the utilization of mineral resources for human activities. It begins with general concepts like definitions of mineral resources, mineral resources and humans, recycling mineral resources, distribution of minerals resources across Earth, and international standards in mining, among others. Then it turns to a classification of mineral resources, covering the main types from a geological standpoint. The exploration of mineral resources is also treated, including geophysical methods of exploration, borehole geophysical

logging, geochemical methods, drilling methods, and mineral deposit models in exploration. Further, the book addresses the evaluation of mineral resources, from sampling techniques to the economic evaluation of mining projects (i.e. types and density of sampling, mean grade definition and calculation, Sichel's estimator, evaluation methods – classical and geostatistical, economic evaluation – NPV, IRR, and PP, estimation of risk, and software for evaluating mineral resources). It subsequently describes key mineral resource exploitation methods (open pit and underground mining) and the mineral processing required to obtain saleable products (crushing, grinding, sizing, ore separation, and concentrate dewatering, also with some text devoted to tailings dams). Lastly, the book discusses the environmental impact of mining, covering all the aspects of this very important topic, from the description of diverse impacts to the environmental impact assessment (EIA), which is essential in modern mining projects.