

# ME 31003      **Underground Metal Mining Methods**

## Lecture Notes

**KUMAMAHESHWAR RAO**

### Chapter 1

#### Salient features of Indian Mining Industry

1. The major contributors of mineral in the country are:

**Table1. Share of key mining states on India's mineral resources** (*Ministry of Mines, Government of India; Ministry of Coal, Government of India, Indian Bureau of Mines, Centre for Monitoring Indian Economy -2006a*)

State	Coal%	Iron ore%	Bauxite%	Manganese %	Lead-Zinc %	Chromite %
Jharkhand	29%	14%	-	-	-	-
Orissa	24	17	51	35	-	98
Chhattisgarh	16	10	-	-	-	-
MP	18	-	-	10	-	-
AP (old)	7	7	21	-	1	-
Rajasthan	-	-	-	-	90	-
Karnataka	-	41	-	29	-	1
Total	84	89	72	74	91	99

2. India produces about 87 minerals that include 4 fuel minerals, 3 atomic minerals, 10 metallic minerals, 47 non-metallic minerals and 23 minor minerals (including building & other materials). India occupies a dominant position in the production of many minerals across the globe.
3. There are close to 3000 mines in India. As per the records of 2010-11, of 2928 mines, 573 were fuel mines, 687 were mines for metals, and 1668 mines for extraction of non-metallic minerals. Of the total number of about 90 minerals, the three key minerals are coal, limestone and iron ore. There are 560 Coal mines (19% of total number), 553 limestone mines (19% of total number) and 316 iron ore mines (11 % of total number) bauxite (189), manganese (141), dolomite (116) and Steatite (113). **India ranks 3rd in coal production, 3rd in limestone production and 4th in iron ore production, in the world as of 2010.**

**Table 2 India's Production Rank across Key Minerals – 2010** (*Ministry of Mines, Government of India; Ministry of Coal, Government of India, Indian Bureau of Mines, Centre for Monitoring Indian Economy -2006a*)

Mineral	Application	Total Production ('000 tonnes)	India's global rank in production
Coal	Power, steel, cement	5,37,000	3 <sup>rd</sup>
Limestone	Cement, iron & steel, chemical	2,40,000	3 <sup>rd</sup>
Iron ore	Iron and steel	2,60,000	4 <sup>th</sup>
Bauxite	Transport vehicles, packaging, construction materials	18,000	4 <sup>th</sup>
Barite	Oil and gas, paints, plastics	1,000	2 <sup>nd</sup>

# Mineral Economics Lecture Notes

**Anthony C. Fisher**



## Mineral Economics Lecture Notes:

*International Mineral Economics* Werner R. Gocht, Half Zantop, Roderick G. Eggert, 2012-12-06 International Mineral Economics provides an integrated overview of the concepts important for mineral exploration mine valuation mineral market analysis and international mineral policies The treatment is interdisciplinary drawing on the fields of economics geology business and mining engineering Part I Economic Geology and Mineral Development examines the technical concepts important for understanding the geology of ore deposits the methods of exploration and deposit evaluation and the activities of mining and mineral processing Part II Mineral Economics focuses on the economic and related concepts important for understanding mineral development the evaluation of exploration and mining projects and mineral markets and market models Finally Part III International Mineral Policies reviews and traces the historical development of the policies of international organizations the industrialized countries and the developing countries **Mineral Economics** Harry Foster Bain, 1932 *Lecture Notes on Resource and Environmental Economics* Anthony C. Fisher, 2020-06-26 This book based on lectures on natural and environmental resource economics offers a nontechnical exposition of the modern theory of sustainability in the presence of resource scarcity It applies an alternative take on environmental economics focusing on the economics of the natural environment including development computation and potential empirical importance of the concept of option value as opposed to the standard treatment of the economics of pollution control The approach throughout is primarily conceptual and theoretical though empirical estimation and results are sometimes noted Mathematics ranging from elementary calculus to more formal dynamic optimization is used especially in the early chapters on the optimal management of exhaustible and renewable resources but results are always given an economic interpretation Diagrams and numerical examples are also used extensively The first chapter introduces the classical economists as the first resource economists in their discussion of the implications of a limited natural resource base agricultural land for the evolution of the wider economy A later chapter returns to the same concerns along with others stimulated by the energy and environmental crises of the 1970s and beyond One section considers alternative measures of resource scarcity and empirical findings on their behavior over time Another introduces the modern concept of sustainability with an intuitive development of the analytics A chapter on the dynamics of environmental management motivates the concept of option value shows how to compute it then demonstrates its importance in an illustrative empirical example The closing chapter on climate change first projects future changes and potential catastrophic impacts then discusses the policy relevance of both option value and discounting for the very long run This book is intended for resource and environmental economists and can be read by interested graduate and advanced undergraduate students in the field as well Principles of Mineral Processing Maurice C. Fuerstenau, Kenneth N. Han, 2003 This comprehensive reference examines all aspects of mineral processing from the handling of raw materials to separation strategies to the remediation of waste products It incorporates state of the art developments in the fields of

engineering chemistry computer science and environmental science      *The Political Economy of Economic Performance*  
 Voxi Heinrich Amavilah, 2020-05-28 Extant research continues to perpetuate a myth of Sub Saharan African countries SSACs as ever stuck in the past and with incurable growth maladies However during the years just before the great global recession some of these countries performed better than countries in other regions What explains this turnaround How can it be ignited everywhere in the region and made to stick The Political Economy of Economic Performance is among a few competitors that celebrate the successes of the region and argue for the positive economics of performance of at least some countries Organized around two themes which are pursued in six chapters the book provides a comprehensive balanced and thorough analysis of the factors and forces behind the unusually good performance of SSACs just before the great global recession and shows that there is a way forward for them The book makes a significant contribution to both policy and research because while its structure is scholarly and logical with a writing style that is coherent and easily understandable to all interested readers worldwide      The Economics of Deep-Sea Mining J.B. Donges, 2012-12-06 Manganese nodules lying on the ocean floor beyond national jurisdiction and containing such strategic minerals as cobalt copper manganese and nickel are currently considered to constitute the highest valued deep ocean mineral resource and regarded by many as the common heritage of mankind Not surprisingly the exploitation of minerals from the sea bed was one of the most controversial issues discussed at the Third United Nations Conference on the Law of the Sea from 1973 to 1982 which led to the adoption of a new Convention on the Law of the Sea in Jamaica in December of 1982 However the still ongoing international debate on the Convention I s regime to govern deep sea mining reveals that the central economic problems involved are far from being definitely settled In view of the importance of this issue the Kiel Institute of World Economics launched in 1980 a major research project on allocational and distributional aspects of the use of ocean resources A comprehensive analysis and evaluation of the new Law of the Sea Convention has already been published see Wilfried Prewé et al Die Neuordnung der Meere Eine ökonomische Kritik des neuen Seerechts Kieler Studien No 173 Tübingen J C B Mohr 1982      **The Business of Mining**  
 Odwyn Jones, Eric Lilford, Sam Spearing, Grantley Taylor, 2019-03-04 The Business of Mining complete set of three Focus books will provide readers with a holistic all embracing appraisal of the analytical tools available for assessing the economic viability of prospective mines Each volume has a discrete focus This first volume presents an overview of the mining business followed by an analysis of project variables and risk an overall coverage of the royalty agreements pricing and contract systems followed by a final chapter on accounting standards and practises for the minerals industry The books were written primarily for undergraduate applied geologists mining engineers and extractive metallurgists and those pursuing course based postgraduate programs in mineral economics However the complete series will also be an extremely useful reference text for practicing mining professionals as well as for consultant geologists mining engineers or primary metallurgists

*Energy and Mineral Resources* , 1994      **A Manual of Mining. Based on the Course of Lectures on Mining**

**Delivered at the School of Mines of the State of Colorado** Magnus Colbjørn Ihlseng, 1898      **Selected Readings in Mineral Economics** F.J. Anderson, 2013-10-22 Selected Readings in Mineral Economics reviews the economic principles of mineral investment activities and mining decisions Topics range from mineral reserves and exploration to the economics of mineral projects taxation issues and marketing and finance This text is comprised of 27 chapters After explaining the distinction between resources and reserves this book proposes a concept of mineral reserves The chapters that follow explore the conversion of resources into reserves through the exploration process while focusing on the flow from resources to reserves and metal production based on the concept of the monitoring curve along with the process of depletion and reserves replacement The next section illustrates the range of issues associated with rational project evaluation in the minerals sector considering the discounted cash flow techniques and option pricing as an approach to mine valuation The effects of Canada's tax system on the mineral supply process are then examined together with international mineral markets and finance This text concludes with a chapter that analyzes financing methods for large scale mining projects including innovative methods of debt finance involving risk sharing This book will be of interest to those working in the mining and metallurgical industries      *Mechanization, Employment, and Output Per Man in Bituminous-coal Mining* Willard Eugene Hotchkiss, 1939      **Smart Computing Paradigms: Advanced Data Mining and Analytics** Milan Simic, Vikrant Bhateja, Ahmad Taher Azar, E. Laxmi Lydia, 2025-05-02 This book presents best selected papers presented at 6th International Conference on Smart Computing and Informatics SCI 2024 held at Department of Computer Science and Engineering Anil Neerukonda Institute of Technology Sciences ANITS Visakhapatnam India during 19-20 April 2024 It presents advanced and multidisciplinary research toward the design of smart computing and informatics The theme is on a broader front and focuses on various innovation paradigms in system knowledge intelligence and sustainability that may be applied to provide realistic solutions to varied problems in society environment and industries The scope is also extended toward the deployment of emerging computational and knowledge transfer approaches optimizing solutions in various disciplines of science technology and healthcare The work is published in three volumes      *Minerals Yearbook*, 2009      *Economic Theories of Exhaustible Resources* T. J. C. Robinson, 2017-10-18 Originally published in 1989 Professor Robinson begins by examining natural resource classification and the nature of return in mining giving particular emphasis to different sources of long run price changes in mining and their relevance for user cost and the economic treatment for exhaustible resources He then traces the development of the economic theory of exhaustible resources from the last quarter of the eighteenth century to the first quarter of the twentieth documenting the differing views of various authors about the future availability of mineral resources and the extent of user cost involved in their exploitation He identifies a link between the perceived availability of exhaustible resources and the nature of the economic theory used to explain their exploitation This book should be of interest to students and researchers of Economic Theory and Policy      **Global Area Disturbed and Pressures on**

**Biodiversity by Large-Scale Metal Mining** Diego I. Murguía, 2015 The rising global demand for metals in a context of declining ore grades is driving the opening of new mines and the expansion of existing ones disturbing substantial land areas especially by open pits However how much land is currently disturbed globally How much land could be disturbed by metal mining in 2050 This study investigates the global area disturbed by mining of iron bauxite copper gold and silver for the first time The first part consists of the calculation of the specific land requirements i e the area newly disturbed caused by the ore extraction at the mine site The second part addresses the global area disturbed in the year 2011 whereas the third presents scenarios of how such area might evolve until 2050 The last part addresses the current and future pressures on global biodiversity by metal mines and shows possibilities for the future opening of new mines in low biodiversity areas alleviating pressures in high biodiversity ones This study presents the findings of the author s dissertation hoping they are used as a frame to develop policies and incentives to reduce the amount of area directly disturbed by mines and their pressures on biodiversity

**Finanzmarkt-Ökonometrie** Michael Schröder, 2012-01-20 Mit welchen konometrischen Methoden kann man gute Prognosemodelle erstellen Im Zentrum des Buches stehen die zentralen Methoden der Finanzmarkt konometrie und ihre Umsetzung Die 2 Auflage wurde um aktuelle Entwicklungen erg nzt und konsequent an der in Banken und an Universit ten weit verbreiteten konometrie Software EViews Version 7 ausgerichtet Umfassend erweitert wurde das Kapitel Nichtstationarit t und Kointegration

Critical Minerals, Sustainability, and the Energy Transition in the Global South Susan Nakanwagi, 2024-11-14 This book addresses the relationship between efficient management of critical minerals and sustainability in the Global South including Sub Saharan Africa Critical minerals are essential raw materials for the technologies that are pivotal in today s energy transition However critical mineral host states and communities face social economic ecological political technological and governance injustices The book contends that the criteria currently used in assessing criticality and critical mineral development do not fulfil the sustainable development ambitions of developing countries and that broader considerations must be taken into account to include the stakeholders involved as well as the spatial dimension of the critical mineral value chain In particular the book argues that the law must consider the broader context in which minerals become critical to particular processes It positions this argument within the current context of climate change the just energy transition the minerals energy nexus and geopolitical tensions By analysing the copper cobalt value chain through case studies on DRC Zambia China and the EU the book provides new avenues for critical mineral development and acknowledges the necessity for sustainability amidst the exacerbated impacts of climate change Addressing a key challenge of the global energy transition the book argues for a just holistic framework which includes parameters such as domestic value addition human rights in business development environmental sensitivity the development of communication channels from remote marginalised communities to international policymakers and the re designing of criticality considerations beyond supply and economic aspects

**Essentials of Mineral Exploration and Evaluation** S.

M. Gandhi, B. C. Sarkar, 2016-05-10 *Essentials of Mineral Exploration and Evaluation* offers a thorough overview of methods used in mineral exploration campaigns evaluation reporting and economic assessment processes Fully illustrated to cover the state of the art exploration techniques and evaluation of mineral assets being practiced globally this up to date reference offers balanced coverage of the latest knowledge and current global trends in successful mineral exploration and evaluation From mineral deposits to remote sensing to sampling and analysis *Essentials of Mineral Exploration and Evaluation* offers an extensive look at this rapidly changing field Covers the complete spectrum of all aspects of ore deposits and mining them providing a one stop shop for experts and students Presents the most up to date information on developments and methods in all areas of mineral exploration Includes chapters on application of GIS statistics and geostatistics in mineral exploration and evaluation Includes case studies to enhance practical application of concepts      **Agents and Data Mining Interaction**

Longbing Cao, Ana L.C. Bazzan, Andreas L. Symeonidis, Vladimir Gorodetsky, Gerhard Weiss, Philip S. Yu, 2012-01-09 This book constitutes the thoroughly refereed post workshop proceedings of the 7th International Workshop on Agents and Data Mining Interaction ADMI 2011 held in Taipei Taiwan in May 2011 in conjunction with AAMAS 2011 the 10th International Joint Conference on Autonomous Agents and Multiagent Systems The 11 revised full papers presented were carefully reviewed and selected from 24 submissions The papers are organized in topical sections on agents for data mining data mining for agents and agent mining applications      *Energy Abstracts for Policy Analysis* ,1989

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