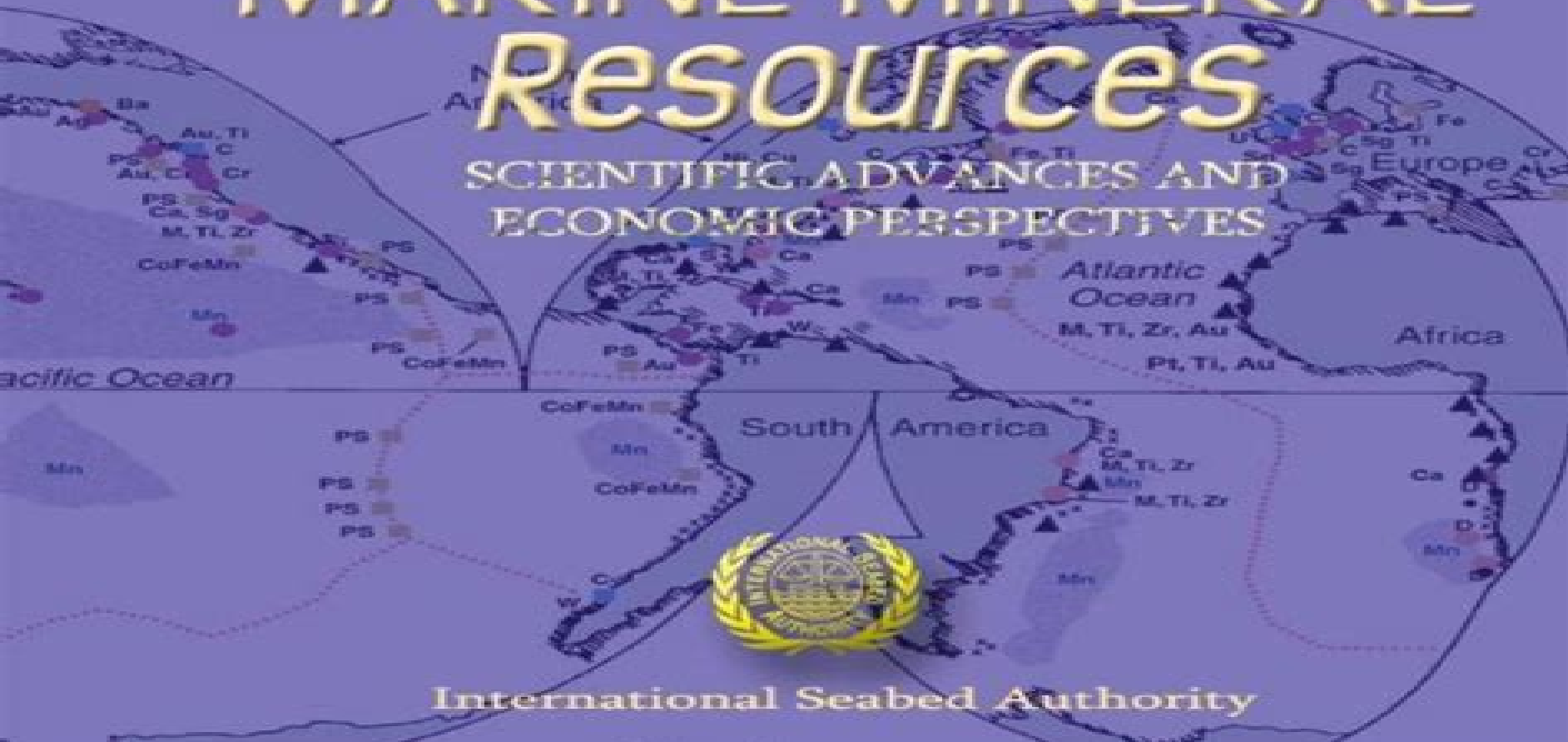




MARINE MINERAL *Resources*

SCIENTIFIC ADVANCES AND
ECONOMIC PERSPECTIVES



International Seabed Authority

Marine Mineral Resources Scientific Advances And Economic Perspectives

Jianhai Xiang



Marine Mineral Resources Scientific Advances And Economic Perspectives:

Marine Mineral Resources United Nations. Division for Ocean Affairs and the Law of the Sea, United Nations. Office of Legal Affairs, International Seabed Authority, 2004 The current contribution of marine mineral resources to the global economy is significant and recent scientific discoveries suggest that the potential contribution could be even greater This study outlines the legal framework for these resources It then examines the scientific aspects including sources and environmental considerations of their exploitation The economic and technological perspectives are then surveyed focussing on integration of science and economics in marine mineral development and resources of the continental shelf and the deep sea

Marine Natural Resources and Technological Development Marco Colazingari, 2013-01-11 This book offers a comprehensive and systematic examination of the issues involved within Ocean Economics The oceans are the last frontier on Earth and research and exploration are key to developing and enhancing global economic activity that is necessary to sustain a growing human population Colazingari pinpoints the contentious issues relevant to oceans natural resources management and protection He examines the cutting edge technology used for the exploration of the oceans living and non living resources fisheries bio products energy resources mineral deposits and identifies the significant emerging patterns that will determine the development of ocean economics in the future Problems require timely action by politicians and policymakers at an international level while scientists and researchers must assist in providing reliable information and investigating viable options With writing that is straightforward but comprehensive this book will appeal to professionals academics students as well as anyone interested in marine environment

Law, Science and Ocean Management University of Virginia. Center for Oceans Law and Policy. Conference, 2007 Contains the proceedings from the 30th annual conference of the Center for Oceans Law and Policy University of Virginia School of Law held in Dublin 12-14 July 2006

Deep-sea Biodiversity and Ecosystems Sybille van den Hove, Vincent Moreau, 2007 The objective of this report is to provide an overview of the key socio economic management and governance issues relating to the conservation and sustainable use of deep sea ecosystems and biodiversity The report highlights our current understanding of these issues and identifies topics and areas that need further investigation to close gaps in knowledge It also explores the needs and means for interfacing research with policy with a view to contributing to the political processes regarding deep sea and high seas governance which are currently ongoing in various international fora within and outside the UN system In addition the report provides guidance on the future direction and focus of research on environmental socio economic and governance aspects in relation to the deep sea

Minerals, Metals and Sustainability W. J. Rankin, 2011-09 Minerals Metals and Sustainability examines the exploitation of minerals and mineral products and the implications for sustainability of the consumption of finite mineral resources and the wastes associated with their production and use It provides a multi disciplinary approach that integrates the physical and earth sciences with the social sciences ecology and economics Increasingly graduates in the minerals

industry and related sectors will not only require a deep technical and scientific understanding of their fields such as geology mining metallurgy but will also need a knowledge of how their industry relates to and can contribute to the transition to sustainability Chapters 1 to 3 introduce the concept of materials how they are used in society and the environmental basis of our existence Chapter 4 introduces the concept of sustainability and the issues it raises for the use of non renewable resources Chapter 5 discusses the geological basis of the minerals industry and Chapter 6 describes the structure and nature of the industry Chapters 7 and 8 review the technologies by which mineral resources are extracted from the Earth s crust and processed Chapters 9 and 10 examine the usage of energy and water Chapters 11 and 12 survey the wastes resulting from the production of mineral and metal commodities the human and environmental impacts of these and how they are managed Chapter 13 examines the recycling of mineral derived materials and the role of secondary materials in meeting material needs Chapter 14 surveys the potential future sources of minerals and the factors that determine long term supply Chapter 15 surveys the socio economic and technological factors that determine the long term demand for mineral derived materials and future trends Chapter 16 discusses how waste can be reduced or eliminated through technological developments and socio political changes Finally Chapter 17 addresses the concept of stewardship and the role the minerals industry should play in the ongoing transition to sustainability Minerals Metals and Sustainability is an important reference for students of engineering and applied science and geology practising engineers geologists and scientists students of economics social sciences and related disciplines professionals in government service in areas such as resources environment and sustainability and non technical professionals working in the minerals industry or in sectors servicing the minerals industry

Research Handbook on International Law and Natural Resources Elisa Morgera, Kati Kulovesi, 2016-11-25 Research Handbook on International Law and Natural Resources provides a systematic and comprehensive analysis of the role of international law in regulating the exploration and exploitation of natural resources It illuminates interactions and tensions between international environmental law human rights law and international economic law It also discusses the relevance of soft law international dispute settlement as well as of various unilateral bilateral regional and transnational initiatives in the governance of natural resources While the Handbook is accessible to those approaching the subject for the first time it identifies pressing areas for further investigation that will be of interest to advanced researchers

Deep Seabed Mining in the Indian Ocean: Economic and Strategic Dimensions Commander (Dr) Nitin Agarwala, 2019-11-01 The book looks at the need of minerals for humanity how and what the oceans offer as minerals in general the technological developments achieved and the insight into future technologies and designs in this field before finally focusing on the mineral wealth of the Indian Ocean It eventually poses some tough questions that need answers if deep seabed mining is to become a success in the future In addition it discusses the efforts of the key players in this field operating in the Indian ocean that has rejuvenated the deep seabed mining both economically and strategically Since

commercial profitability of marine minerals occurs only if the demand is greater than the supply at times the decision gets governed by strategic reasoning Hence the book aims to give an idea of the driving forces that guide such decision making and the development of deep seabed mining

Treatise on Process Metallurgy Seshadri Seetharaman, Alexander McLean, Roderick Guthrie, Sridhar Seetharaman, 2025-06-09 *Treatise on Process Metallurgy Volume 5 Energy Environment and Future Aspects of Process Metallurgy* Second Edition is divided into two parts with the first covering sustainable development as it pertains to process metallurgy addressing issues arising from sustained economic growth long term mineral and metal supply and energy requirements in metallurgical industries It also examines energy resources including fossil and renewable sources and discusses the resource efficiency of the circular economy through simulation based analyses The second part delves into the future of metals production globally with a focus on raw material and energy availability It presents current CO₂ emissions and future projections with emphasis on reducing CO₂ generation in steelmaking technologies Additional topics discussed include flash smelting FINEX process outlook the rotary hearth furnace and an extensive coverage of hydrogen steelmaking Covers sustainable development of metals insight on their current and forecast supply and demand emissions reduction and use of energy in the metallurgical industry and more Features simulation based analysis of the resource efficiency of the circular economy and the enabling role of metallurgical infrastructure as a part of recycling with reference to slags utilization of metallurgical scrap form and more Discusses the future outlook of metal production with particular attention paid to raw materials energy availability CO₂ emissions flash smelting rotary hearth furnaces and hydrogen steelmaking

The International Seabed Authority and the Precautionary Principle Aline L. Jaeckel, 2017-01-05 With the transition to the commercial scale exploitation of deep seabed minerals the International Seabed Authority's obligation to protect the marine environment is being tested In *The International Seabed Authority and the Precautionary Principle* Aline L. Jaeckel provides the first in depth analysis of the Authority's work in regulating and managing deep seabed minerals This book examines whether and to what extent the Authority is implementing the precautionary principle in practice This includes the development of adequate environmental protection standards as well as procedural safeguards and decision making processes that facilitate risk assessment and risk management In doing so the author offers an insightful example of how the precautionary principle can be translated into a practical management tool

Environmental Oceanography and Coastal Dynamics Swapna Mukherjee, Kaushik Kiran Ghosh, Abhra Chanda, 2023-11-14 This book deals with every aspect of oceanography in detail including various aspects of physical chemical geological and biological discourse Earth and Planetary Science is perhaps the oldest dynamic and ever evolving subject Oceanography is one of its domains which has become important in the present date given the ubiquitous and undeniable climate change that we are experiencing The subject domain of oceanography encompasses several environmental issues which need serious attention from the present scientific community Despite the ocean's significant role

in the collective well being of the human race a multitude of anthropogenic activities has drastically polluted and degraded several crucial oceanic ecosystems within a short span This book aims to present a concise yet succinct introduction to Oceanography as a subject and at the same time highlight the cutting edge topics of research encompassing marine pollution coastal processes and many other associated phenomena Oceanography is an interdisciplinary emerging subject and students all over the world who come from varied disciplines are pursuing it as higher studies Long sections are devoted to ocean atmosphere interaction tides waves and related coastal processes The book represents a comprehensive idea of human activities bestowing the ocean with particular reference to Indian examples This book helps to understand marine pollution and the behavior of oil plastic and other agents in the light of real world examples and empirical models Harnessing electricity from waves and tides is a technological advancement in the field of unconventional energy The vast resources of the ocean like oil mineral methane hydrate and their proper estimation and exploitation is the topic of discussion in the third part of the book This book is designated to meet the essential needs of the students studying oceanography and marine science It may be helpful to professional oceanographers also *Marine Conservation* G. Carleton Ray, Jerry McCormick-Ray, 2013-10-11 Providing a guide for marine conservation practice Marine Conservation takes a whole systems approach covering major advances in marine ecosystem understanding Its premise is that conservation must be informed by the natural histories of organisms together with the hierarchy of scale related linkages and ecosystem processes The authors introduce a broad range of overlapping issues and the conservation mechanisms that have been devised to achieve marine conservation goals The book provides students and conservation practitioners with a framework for thoughtful critical thinking in order to incite innovation in the 21st century Marine Conservation presents a scholarly but eminently readable case for the necessity of a systems approach to conserving the oceans combining superb introductions to the science law and policy frameworks with carefully chosen case studies This superb volume is a must for anyone interested in marine conservation from students and practitioners to lay readers and policy makers Simon Levin George M Moffett Professor of Biology Department of Ecology Evolutionary Biology Princeton University Environmental Law and Governance in the Pacific Margaretha Wewerinke-Singh, Evan Hamman, 2020-08-26 This volume examines environmental law and governance in the Pacific focusing on the emerging challenges this region faces The Pacific is home to some of the world s most astonishing biological and cultural diversity At the same time Pacific Island nations are economically and technically under resourced in the face of tremendous environmental challenges Destructive weather events ocean acidification mining logging overfishing and pollution increasingly degrade ecosystems and affect fishing farming and other cultural practices of Pacific Islanders Accordingly there is an urgent need to understand and analyse the role of law and governance in responding to these pressures in the Pacific Drawing on academic and practitioner expertise from the Pacific region as well as Europe and the United States this unique collection navigates the major environmental law and governance challenges of the present and

future of the Pacific Environmental Law and Governance in the Pacific discusses 21 Pacific Island countries and territories including Cook Islands Fiji Papua New Guinea Solomon Islands Vanuatu and Samoa and a broad range of themes such as deep sea mining wetlands and mangroves heritage endangered species human rights and access to justice are addressed thus providing a comprehensive and state of the art overview of environmental law and governance within specific jurisdictions as well as across the Pacific region as a whole This volume will be essential reading for students and scholars interested in environmental law and governance in the Pacific region as well as policy makers practitioners and NGOs involved in the development and implementation of environmental law and policy

Making the Law of the Sea James Harrison, 2011-04-14 The law of the sea is an important area of international law which must be able to adapt to the changing needs of the international community Making the Law of the Sea examines how various international organizations have contributed to the development of this law and what kinds of instruments and law making techniques have been used Each chapter considers a different international institution including the International Maritime Organization and the United Nations and analyses its functions and powers Important questions are posed about the law making process including what actors are involved and what procedures are followed Potential problems for the development of the law of the sea are considered and solutions are proposed In particular James Harrison explores and evaluates the current methods employed by international institutions to coordinate their law making activities in order to overcome fragmentation of the law making process

Risk and the Regulation of Uncertainty in International Law Monika Ambrus, Rosemary Rayfuse, Wouter Werner, 2017-10-27 Increasingly international legal arrangements imagine future worlds or create space for experts to articulate how the future can be conceptualized and managed With the increased specialization of international law a series of functional regimes and sub regimes has emerged each with their own imageries vocabularies expert knowledge and rules to translate our hopes and fears for the future into action in the present At issue in the development of these regimes are not just competing predictions of the future based on what we know about what has happened in the past and what we know is happening in the present Rather these regimes seek to deal with futures about which we know very little or nothing at all futures that are inherently uncertain and even potentially catastrophic futures for which we need to find ways to identify conceptualise manage and regulate risks the existence of which we can possibly only speculate about This book explores how the future is imagined articulated and managed across the various fields of international law including the use of force maritime security international economic and environmental law and human rights It investigates how the future is construed in these various areas how the costs of risk risk regulation risk assessment and risk management are distributed in international law the effect of uncertain futures on the subjects of international law and the way in which international law operates when faced with catastrophic or existential risk

The law of the sea Robin Churchill, Vaughan Lowe, Amy Sander, 2022-05-10 For nearly forty years The law of the sea has been regarded as an authoritative and standard work on the

subject combining detailed analysis and relevant practical examples with a clear and engaging style Completely revised and updated this new edition will be a vital resource for anyone with an interest in maritime affairs The book provides a rigorous analysis of the 1982 UN Convention on the Law of the Sea and the many other legal instruments that regulate human activities at sea as well as taking full account of the numerous decisions of international courts and tribunals in recent years It also traces the historical background to the law and its broader political economic and environmental context The new edition includes substantially expanded coverage of contemporary threats faced by the marine environment from human activities such as the loss of marine biodiversity the effects of climate change on the oceans and the vast amounts of plastic polluting the sea This volume is written by three highly qualified authors drawing on their extensive experience of teaching and researching the law of the sea as well as their practical experience in advising governments and acting as counsel and arbitrators in international litigation

Asian Maritime Power in the 21st Century Vijay Sakhuja, 2011 Maritime power has been a key defining parameter of economic vitality and geostrategic power of nations This book explores how the first decade of the 21st century has witnessed the rise of China and India as confident economic powers pivoting on high growth rates exponential expansion of science technology and industrial growth

The Changing Dimensions of Security Dr. Suresh R, 2015-10-01 The end of cold war and the on going globalization process along with the proliferation of non traditional threat to security of the nations led to multilateralism in international relations Though the great powers are not ready to accept the new developments the post cold war events such as threat from non state actors to the security of nation the global economic slowdown and global climate change compelled even the most militarily powerful nation to seek multilateral approach to address these trans border menaces The global movements towards democratization and protection and promotion of human rights supported by ICT once again brought individuals rights and security into focal point It appears that even if nations are secure people living there may not be secure The civil wars taken place in some nation states to protect the rights of multi ethnic groups or the demand for right to self determinations of people are examples of such a situation In this context security means people s security and international efforts are required to ensure people s security from any threat emanates from within or outside the nation states Thus human security assumes great significance in the post cold war era of profoundly interdependent global system There is a blurred boundary between national security and international security on the one hand and the national security and human security on the other hand The initiative taken by the new government at the federal level towards good neighbourhood and better relation with great powers along with focusing more on human security issues appears to be policy in the right direction Again the shift from a land centric security paradigm to maritime security and coastal security are also visible in recent times The book deals with the changing dimensions of security at the theoretical level and a wide spectrum of security issues that India is confronted with and also certain policy options In the theoretical section the strategic doctrine of India is well reviewed and policy options are also explored It covers areas such as

biological perspective of security human security perspective energy security and maritime security In addition it also examines some of the bilateral security issues and concerns with neighbouring countries

Filling Regulatory Gaps in High Seas Fisheries Yoshinobu Takei, 2013-03-27 In Filling Regulatory Gaps in High Seas Fisheries author Yoshinobu Takei investigates the regime of high seas fisheries from the perspective of international law and considers whether there are regulatory gaps in high seas fisheries and if so how they should be filled The book focuses on topical issues such as the management of deep sea fisheries on the high seas and the protection of vulnerable marine ecosystems In view of the current state of marine fisheries resources together with ecosystem concerns swift and effective action is required to improve fisheries management in particular for high seas fisheries Takei thoroughly analyzes the current state of affairs and convincingly suggests steps to be taken in the future

Marine Science & Technology in China: A Roadmap to 2050 Jianhai Xiang, 2010-08-04 As one of the eighteen field specific reports comprising the comprehensive scope of the strategic general report of the Chinese Academy of Sciences this sub report addresses long range planning for developing science and technology in the field of marine science They each craft a roadmap for their sphere of development to 2050 In their entirety the general and sub group reports analyze the evolution and laws governing the development of science and technology describe the decisive impact of science and technology on the modernization process predict that the world is on the eve of an impending S T revolution and call for China to be fully prepared for this new round of S T advancement Based on the detailed study of the demands on S T innovation in China s modernization the reports draw a framework for eight basic and strategic systems of socio economic development with the support of science and technology work out China s S T roadmaps for the relevant eight basic and strategic systems in line with China s reality further detail S T initiatives of strategic importance to China s modernization and provide S T decision makers with comprehensive consultations for the development of S T innovation consistent with China s reality Supported by illustrations and tables of data the reports provide researchers government officials and entrepreneurs with guidance concerning research directions the planning process and investment

Founded in 1949 the Chinese Academy of Sciences is the nation s highest academic institution in natural sciences Its major responsibilities are to conduct research in basic and technological sciences to undertake nationwide integrated surveys on natural resources and ecological environment to provide the country with scientific data and consultations for government s decision making to undertake government assigned projects with regard to key S T problems in the process of socio economic development to initiate personnel training and to promote China s high tech enterprises through its active engagement in these areas

International Environmental Law Ulrich Beyerlin, Thilo Marauhn, 2011-08-11 International Environmental Law is a new textbook written for students practitioners and anyone interested in the subject The overall aim of the book is to provide a fresh understanding of international environmental law as a whole seen in the light of climate change biodiversity loss and the other serious environmental challenges facing the world The book has also been kept

deliberately manageable in size by careful selection of topics and by adopting a cross cutting synthesis of regulatory interaction in the field This enables the reader to place international environmental law in the broader context of public international law in general revealing at the same time that international environmental law is experimental ground for developing new legal approaches towards global governance To this end the authors have combined theory and practice Apart from discussing concepts rule making and compliance the book looks at options for improved coordination harmonisation and even integration of existing multilateral environmental agreements analysing how conflicts between various environmental regimes can be avoided or at least adequately managed The authors argue that an appropriate management of international environmental relations must address the North South divide which continues to be a major obstacle to global environmental cooperation Furthermore the authors emphasise the growing human rights dimension of international environmental law This book is an ideal door opener for the further study of international environmental law Focusing on international environmental governance in a comprehensive way it serves to explain that each institution each actor and each instrument is part of a multi dimensional process in international environmental law and relations

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