

# **Economic Losses from Marine Pollution**

**A HANDBOOK  
FOR ASSESSMENT**

**Douglas D. Ofiara  
and  
Joseph J. Seneca**



# Economic Losses From Marine Pollution A Handbook For Assessment

**Glen Wright, Sandy Kerr, Kate Johnson**



## **Economic Losses From Marine Pollution A Handbook For Assessment:**

Economic Losses from Marine Pollution Douglas D. Ofiara, Joseph Seneca, 2001-05 Marine pollution causes significant damage to fisheries and other economically productive uses of the ocean The value of that damage can be quantified by economists but the meanings of those valuations and how they are derived are often obscure to noneconomists Economic Losses from Marine Pollution brings a fuller understanding of the variety and extent of marine losses and how they are assessed to scientists lawyers and environmentalists by systematically identifying and classifying marine losses and relating them to models and methods of economic valuation The authors use a step by step approach to show how economists have used these methods and how they approach the problem of assessing economic damage The book begins by describing the importance of economic valuation of marine damages the history of concern over marine pollution and the development of economic methodologies to assess damage from it Following that the book considers types of marine pollution and their effects on organisms ecosystems and humans and the corresponding economic effects of those biological impacts introduces the economic principles and methods needed to understand and to assess economic damages expresses losses from water quality impairments in terms of economic value introduces the basic economic techniques that have been developed and used to measure changes in economic value discusses how to apply those economic techniques and presents a variety of practical examples explores limitations and problems that can arise in such applied work Economic Losses from Marine Pollution includes all of the relevant economic theory together with specific examples of how that theory has been and can be applied It offers environmental professionals with little or no background in economics the basic economic tools needed to understand economic valuations of environmental damage and represents a unique handbook for environmental and marine scientists lawyers economists policy professionals and anyone interested in issues of marine water quality EPA Publications Bibliography United States. Environmental Protection Agency, 1985 **Training Manual on International Environmental Law** , 2006 It is widely recognized that most environmental problems challenges and solutions are transboundary regional or global in scope The environment is an area where states and stakeholders are cooperating extensively and progressively This manual seeks to provide a comprehensive overview of the current body of environmental law Publisher's description EPA Publications Bibliography Quarterly Abstract Bulletin United States. Environmental Protection Agency, 1999-07 Environmental Health Perspectives , 1993 Coastal Hazard Management Norbert P. Psuty, Douglas D. Ofiara, 2002 As with most shorelines around the world New Jersey beaches are slowly but inexorably being eroded threatening coastal structures and development In some years more sand is deposited than removed but all of the state's monitoring devices show that sea level is gradually rising and pushing the New Jersey shoreline inland The shore is a valuable resource and its natural cultural and economic attractions draw a multitude of permanent and temporary residents each year extending housing and commercial development onto areas that were once swampland Not surprisingly

development at the water's edge has been accompanied by an increasing exposure to the natural hazards of the coastal zone erosion flooding and wind damage In this book Norbert Psuty and Douglas Ofiara incorporate perspectives from the areas of coastal sciences economics public policy and land use planning in creating a systematic plan for coastal management and protection It has been more than a decade since New Jersey developed the nation's first state shore protection plan and this volume provides a timely evaluation of its achievements and future challenges This self-contained book provides all of the relevant theories models and examples so the reader will not need to refer to any other literature to gain an understanding of the issues and policies surrounding shore protection It is the authoritative handbook for practitioners and policy makers in many fields including coastal science and management and engineering as well as public policy and economics

*Water Rights and the Environment in the United States* John R. Burch Jr., 2015-07-20 This sweeping study traces the development of water policy in the United States from the 19th century to the present day exploring the role of legislation in appropriating access to water to the American people Three factors influence the development of water policy and politics in the United States the availability of water the manner in which people use the commodity to its maximum economic benefit and governmental control This book is a one-stop resource for understanding the scope of water issues in America from governing doctrine and legislation to Native American water rights to water protection and pollution and to the mitigation of natural and manmade disasters Distinguished author and noted scholar John R Burch Jr reviews the conflicts among state federal and international agencies in dealing with water supply and points to competing legal rulings and laws as undermining the creation of a cohesive policy for all Through an analysis of key documents Burch examines the recent calamities befalling the American water system including droughts oil spills and natural disasters and considers the future of water distribution to the American people Organized into six parts sections include doctrines and rights waters of the West border regions water management and flood control environmental issues and water supply and safety

**Encyclopedia of Environmental Change** John A Matthews, 2013-12-13 Accessibly written by a team of international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change This three-volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide-ranging local regional and global impacts from the polar regions to the tropics Responses of geo-ecosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more Conservation Demographic change

Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions to short essays making this an invaluable companion for any student of physical geography environmental geography or environmental sciences *Environmental Education and Information* ,2001 *Encyclopedia of Public Administration and Public Policy* David Andrew Schultz,James A Beverly,Professor and Senior Fellow David Schultz,2014-05-14 An alphabetical listing of administrative agencies and departments with details about the office and its role in government as well as terms and definitions **IMO/UNEP Guidance Manual on the Assessment and Restoration of Environmental Damage Following Marine Oil Spills** International Maritime Organization,United Nations Environment Programme,2009 On 27 July 2003 the oil tanker Tasman Spirit ran aground spilling a portion of its 67 000 tonne cargo of Iranian Light Crude Oil into Karachi Harbour in Karachi Pakistan The loss of product resulted in environmental damage with heavy oiling of the shoreline in Karachi Harbour and surrounding areas Recognizing the need for international guidance to assist nations in assessing damage to natural resources following major oil spills in the aftermath of this incident the United Nations Environment Programme UNEP soon thereafter initiated the development of a manual on natural resource damage assessment and restoration following major oil spills Given IMO s specialised expertise on preparedness for and response to accidental marine pollution issues and the long history of collaboration between IMO and UNEP the two organisations agreed to the development of the Manual as a joint publication With a view to providing operational guidance the IMO UNEP Guidance manual on the assessment and restoration of environmental damage following marine oil spills has been developed through the OPRC HNS Technical Group of the Marine Environment Protection Committee of IMO in full collaboration and partnership with the United Nations Environment Programme The objective of the Manual is to provide guidance on strategies that may be used to assess the damage and subsequent recovery of the environment resulting from marine pollution incidents Available techniques are considered together with criteria to help judge the feasibility of such measures to bring about successful recovery of those environments The Manual emphasizes the importance of pre spill planning and provides an overview of assessment techniques and restoration measures in various ecosystems It also provides guidance on opportunities for compensation through the international oil compensation schemes Practical examples of natural resource assessment and restoration are provided through a series of case studies **Journal of Economic Literature** ,2002 *Handbook on Biodiversity and Ecosystem Services in Impact Assessment* Davide Geneletti,2016-06-24 This Handbook presents state of the art methodological guidance and discussion of international practice related to the integration of biodiversity and ecosystem services in impact assessment featuring contributions from leading researchers and practitioners

the world over Its multidisciplinary approach covers contributions across five continents to broaden the scope of the field both thematically and geographically

Coastal Planning and Management Robert Kay,Jaqueline Alder,2017-09-29 The first comprehensive tool kit for coastal planners and those aiming to achieve effective coastal management worldwide Coastal Planning and Management provides a link between planning and management tools and thus includes all stages in the process from development through evaluation to implementation Drawing on examples of successful coastal planning and management from around the world the authors provide clear and practical guidelines for the people who make daily decisions about the world s coastlines Coastal Planning and Management is an invaluable resource for professionals in environmental and planning consultancies international organizations and governmental departments as well as for academics and researchers in the local and international fields of geography marine and environmental science marine and coastal engineering and marine policy and planning

*Selected Water Resources Abstracts* ,1978 *Energy Abstracts for Policy Analysis* ,1989

**Mining Environment Management Manual** N.C. Saxena,Gurdeep Singh,Pramod Pathak,B.C. Sarkar,A.K. Pal,2004-06-01 This Mining Environment Management Manual is developed for the benefit of the entire mining industry in the Country The Manual has been designed in such a manner that it can be easily used by the engineers and environmentalists in the mining complexes in their efforts for the management of mining environment The Manual presents the existing status and comprehensive overview of all the aspects of mining environment Since environment is a developing subject the user of the Manual is suggested to wherever necessary consult the web sites of MOEF and other concerned organizations for the latest status The manual in nineteen chapters outlines the following for the benefit of the users

- 1 Broad details of the mineral mining industry in the country
- 2 Policies legislation standards and procedures for establishing and operating the mines covering an environmental overview of the national policies and the policies of the mining companies mining and environmental legislations and standards site selection environmental clearance forestry clearance and the various formats to be filled or establishing and operating the mines
- 3 Preparation of the environmental management plans EMPs of the mining projects
- 4 Environmental monitoring
- 5 Mining methods commonly used in the Indian coal and non coal mineral industry
- 6 Environmental impacts of mining on society ecology land water regime and atmosphere
- 7 Environmental impact assessment EIA
- 8 Environmental management measures required in mineral mining including the assessment of quality of life development of R R packages development of surface and underground water bodies replantation of trees formation and management of soil and overburden dumps environmental aspects of blasting land reclamation and rehabilitation planning mine fires acid mine drainage inundation noise modeling etc
- 9 Mine closure comprising of legislative and social necessity of mine closure in the Indian context mine closure planning for underground and opencast mines and format for mine closure planning in project report
- 10 Procedure for environmental performance auditing and evaluation
- 11 Land acquisition and optimization of land requirement for mining and associated activities and rehabilitation and

resettlement 12 Land use planning in mining areas 13 Risk assessment and disaster management 14 Environmental aspects of tailing storage 15 Use of geographical information system in environmental management in mining areas 16 Utilization of fly ash in mines 17 Environmental economics 18 Roles of executives in environmental management in mining areas 19 Do's and don'ts in environmental management planning and implementation The manual in simple English aims at to attract attention of one and all concerned with the management of mining environment The manual will be useful to the following categories of the people in the mining complexes in the Country and Abroad Mine planners in planning and designing of the mining activities and integration of environmental management measures in the mining methods Mine operators in implementing the environmental management measures monitoring and compliance of legislation Regulatory agencies and their executives in developing a better understanding of the mining environment related aspects and implementing the legislation Research workers in planning designing and undertaking research and development activities Educationists in imparting the knowledge and know how to the participants in various academic and human resource development programs The Non Governmental Organizations NGOs in developing a better understanding of the mining environment and assisting the mineral industry in effective implementation of the environmental management efforts The people in the mining complexes in developing the understanding of various aspects of the management of mining environment In addition the Manual will be an important addition to the knowledge base in the libraries of all the institutions and organizations associated with mining and environmental management The user is advised to read the Manual carefully and understand the various topics discussed and then use their own wisdom and the suggestions made in the Manual in design planning implementation and monitoring of the mining activities The legislative aspect of mining environmental management is dynamic and time to time changes are made in the Acts Rules and Regulations by the Central and State Governments The user is therefore advised to get abreast with the latest developments through the web sites of the MOEF and the Central and State Pollution Control Boards and other regulatory agencies e.g. DGMS IBM etc

**Handbook of Environmentally Conscious Manufacturing** Christian N. Madu, 2022-08-19 Manufacturers under pressure from their major stakeholders integrate environmental issues in the design and management of their products These stakeholders include customers regulators employees communities and interest groups who have a common stake in protecting the earth from pollution and in limiting the exploitation of earth's limited natural resources Manufacturers recognize that being environmentally responsible also offers competitive advantage to the firm The Handbook of Environmentally Conscious Manufacturing is written as a state of the art reference to guide environmentally conscious manufacturing ECM All the contributors have done extensive research and or practice work in the field of ECM The Handbook covers all the major topics in Environmentally Conscious Manufacturing There are specific chapters to deal with sustainable manufacturing recycling eco labelling life cycle assessment and ISO 14000 series of standards as well as decision making aspects of Environmentally Conscious

Manufacturing Decision oriented topics on supply chain decision models quality initiative environmental costing and decision support systems are also covered The influence of ECM on marketing imperative is also covered **Toxicology Research Projects Directory** ,1980 **Ocean Energy** Glen Wright,Sandy Kerr,Kate Johnson,2017-12-14 Energy from wave and tidal power is a key component of current policies for renewable sources of energy This book provides the first comprehensive exploration of legal economic and social issues related to the emerging ocean energy industry in particular wave and tidal energy technologies This industry is rapidly developing and considerable technical literature has developed around the technology However it is shown that challenges relating to regulation and policy are major impediments to industry development and these aspects have not previously been sufficiently highlighted and studied The book informs policymakers industry participants and researchers of the key issues in this developing field Ocean energy is considered in the context of the blue economy and an industrialising ocean and the topics covered include development of policy policy instruments risk and delay in technology development legal aspects consenting processes resource management impact assessment human interactions conflicts consultation community benefits and spatial planning of the marine environment While offshore wind energy sited in the oceans but not strictly derived from the ocean is not the primary focus of the book there is also discussion of the similarities and differences between offshore wind and wave and tidal power policy dimensions



## Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Economic Losses From Marine Pollution A Handbook For Assessment**

In a global inundated with monitors and the cacophony of fast communication, the profound power and mental resonance of verbal art usually diminish into obscurity, eclipsed by the continuous assault of noise and distractions. Yet, set within the musical pages of **Economic Losses From Marine Pollution A Handbook For Assessment**, a interesting perform of fictional beauty that impulses with raw emotions, lies an memorable journey waiting to be embarked upon. Published with a virtuoso wordsmith, this enchanting opus courses visitors on a mental odyssey, lightly revealing the latent potential and profound influence stuck within the complicated internet of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is main themes, dissect their fascinating publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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