

Methods Of Environmental Impact Assessment 3rd Edition

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[Environmental Life Cycle Assessment \(Open Access\)](#) - Olivier Joliet
2015-11-18

Environmental Life Cycle Assessment is a pivotal guide to identifying environmental problems and reducing related impacts for companies and organizations in need of life cycle assessment (LCA). LCA, a unique sustainability tool, provides a framework that addresses a growing demand for practical technological solutions. Detailing each phase of the LCA methodology, this textbook covers the historical development of LCA, presents the general principles and characteristics of LCA, and outlines the corresponding standards for good practice determined by the International Organization for Standardization. It also explains how to identify the critical aspects of an LCA, provides detailed examples of LCA analysis and applications, and includes illustrated problems and solutions with concrete examples from water management, electronics, packaging, automotive, and other industries. In addition, readers will learn how to: Use consistent criteria to realize and evaluate an LCA independently of individual interests Understand the LCA methodology and become familiar with existing databases and methods based on the latest results of international research Analyze and critique a completed LCA Apply LCA methodology to simple case studies Geared toward graduate and undergraduate students studying environmental science and industrial ecology, as well as practicing environmental engineers, and sustainability professionals who want to teach themselves LCA good practices, Environmental Life Cycle Assessment demonstrates how to conduct environmental assessments for products throughout their life cycles. It presents existing methods and recent developments in the growing field of LCA and systematically covers goal and system definition, life cycle inventory, life cycle impact assessment, and interpretation.

Environmental Impact Assessment - Richard K. Morgan 1999-05-31
Environmental Impact Assessment (EIA) is one of the most important tools employed in contemporary environmental management. Presenting the component activities of EIA within a coherent methodological framework, *Environmental Impact Assessment: A Methodological Approach* provides students and practitioners alike with a rigorous grounding in EIA theory, including biophysical, social, strategic and cumulative assessment activities, and examines the crucial role, and limitations, of the science of EIA. Deliberately designed to be relevant world-wide, the author focuses on the common skills and generic aspects of EIA that underpin all impact assessment work, independent of country or jurisdiction, such as screening and scoping, impact identification, public involvement, prediction and monitoring, evaluation, and quality control. The variety of approaches are identified along with their associated strengths and weaknesses, enabling potential, new and experienced practitioners to make informed choices and to improve their working practices through a better understanding of EIA activity. The ultimate aim of this book is to move from the notion of EIA as a technical procedure towards a concept of EIA as a particular form of problem-solving with varied methodological requirements.

[Environmental Impact Assessment for Developing Countries](#) - Asit K. Biswas 2013-10-22

Environmental Impact Assessment for Developing Countries is based on selected papers presented at the 1991 International Conference on Environment Impact Assessment, held at New Delhi, India. This work is organized into four parts encompassing 18 chapters. Part I provides an overview and general considerations of balance environmental impact assessment (EIA), with particular emphasis in the developing countries in Asia. Part II highlights various EIA performed in different industry, including chemical plants, coal mining, thermal and power plant, and solid waste disposal. This part also describes the simulation modeling in EIA. Part III discusses the national experiences in EIA. This part elaborates on EIA of development projects in Netherlands, Sweden, Philippines, Tanzania, Canada, India, and United Kingdom. Part IV provides a summary and recommendations. This book will prove useful to environmental and

research scientists.

Handbook of Environmental Impact Assessment - Judith Petts
2009-04-01

Environmental Impact Assessment (EIA) is a significant, anticipatory, environmental management tool. International debate focuses on its enhancement to meet the challenges of sustainable development as well as demands for scientifically robust integrated and participative decision-making. This handbook hopes to improve practices by contributing an international, multidisciplinary, ready-reference source to this debate. Volume I addresses EIA principles, process and methods. Part 1 maps the EIA process and its impact on decision. It positions EIA in the context of sustainable development and relative to other decision tools, including economic valuation. It also positions strategic environmental assessment (SEA) in a similar way. Part 2 addresses the elements of the EIA process and significant impact assessment topics (air, water, ecological, social, risk, landscape and visual) not only in terms of good practice but also methodological evolution. This volume concludes by addressing cumulative impact assessment and SEA methods. Volume II provides a unique consideration for EIA implementation and practice in Europe, Africa, the Far East, South America and North America. It uses a number of project types to provide 'how to do' guidance and addresses practice in policy and plan assessment. This book should be read by legislators, decision-makers, economists, developers, industrial managers and consultants involved in this significant field.

Environmental Regulation and Impact Assessment - Leonard Ortolano 1997-03-21

This book integrates the closely related processes of environmental impact assessment and traditional regulatory activities for managing air and water pollution and hazardous waste. It emphasizes methods of analysis along with the process of environmental planning and management. This demonstrates all of the analytic and qualitative techniques needed for effective planning and managing.

Environmental Assessment and Management in the Food Industry - U Sonesson 2010-09-30

Life cycle assessment (LCA) of production and processing in the food industry is an important tool for improving sustainability. *Environmental assessment and management in the food industry* reviews the advantages, challenges and different applications of LCA and related methods for environmental assessment, as well as key aspects of environmental management in this industry sector. Part one discusses the environmental impact of food production and processing, addressing issues such as nutrient management and water efficiency in agriculture. Chapters in Part two cover LCA methodology and challenges, with chapters focusing on different food industry sectors such as crop production, livestock and aquaculture. Part three addresses the applications of LCA and related approaches in the food industry, with chapters covering combining LCA with economic tools, ecodesign of food products and footprinting methods of assessment, among other topics. The final part of the book concentrates on environmental management in the food industry, including contributions on training, eco-labelling and establishing management systems. With its international team of editors and contributors, *Environmental assessment and management in the food industry* is an essential reference for anyone involved in environmental management in the food industry, and for those with an academic interest in sustainable food production. Reviews the advantages, challenges and different applications of LCA and related methods for environmental assessment Discusses the environmental impact of food production and processing, addressing issues such as nutrient management and water efficiency in agriculture Examines environmental management in the food industry, including contributions on training, eco-labelling and establishing management systems

Resource and Environmental Management - Bruce Mitchell
2013-12-16

This book does an exceptional job in giving an understanding of change, complexity, uncertainty and conflict as well as their linkages, including awareness of strategies, methods and techniques to handle them relative to resource and environmental management. The text enhances the reader's capacity to conduct practice and conduct research in resource and environmental management.

Territorial Impact Assessment - Eduardo Medeiros 2020-11-19

This book presents a comprehensive debate and analysis of existing Territorial Impact Assessment (TIA) methodologies, designed under the auspices of the ESPON programme since the mid-2000s. This is intended to serve as a TIA handbook for the reader, to better understand the main differences, advantages and shortcomings of each presented TIA methodology. It also serves as a manual for professors and students in the field of policy evaluation, and territorial analysis, as it presents concrete examples of the implementation of each TIA methodology, their formulas and intrinsic evaluation elements. The purpose of policy evaluation methodologies is to check the main effects of private and public investments, in order to report back to policymakers and citizens on their efficiency and effectiveness. Over the past decades, both in Europe and worldwide, there has been an increasingly awareness of the need to implement/reinforce policy evaluation practices, at all territorial levels. At the same time, it has become widely accepted that many policy interventions produce impacts in more than one dimensions of territorial development. In this context, the use of a holistic and territorial approach for policy impact assessment evaluation has rapidly been adopted by the European Commission as a mainstream policy evaluation procedure.

The International Law of Environmental Impact Assessment - Neil Craik 2010-12-16

The central idea animating environmental impact assessment (EIA) is that decisions affecting the environment should be made through a comprehensive evaluation of predicted impacts. Notwithstanding their evaluative mandate, EIA processes do not impose specific environmental standards, but rely on the creation of open, participatory and information rich decision-making settings to bring about environmentally benign outcomes. In light of this tension between process and substance, Neil Craik assesses whether EIA, as a method of implementing international environmental law, is a sound policy strategy, and how international EIA commitments structure transnational interactions in order to influence decisions affecting the international environment. Through a comprehensive description of international EIA commitments and their implementation with domestic and transnational governance structures, and drawing on specific examples of transnational EIA processes, the author examines how international EIA commitments can facilitate interest coordination, and provide opportunities for persuasion and for the internalisation of international environmental norms.

Environmental Impact Assessment - Larry W. Canter 1996

The Canter text appeals mainly to Civil Engineering students taking course work in environmental assessment practice or impact assessment, usually taught at the junior/senior level as a popular elective. Some chemical and environmental engineers take the course as well. The author has specifically beefed up and improved the chapters on biological, cultural, and socioeconomic environmental factors. The book continues to emphasize both production and assessment aspects of environmental factors, i.e., air, water, and noise, together with some interesting case studies. The latest governmental methodologies and Environmental Impact Studies have been included in this timely revision.

Routledge Handbook of Environmental Impact Assessment - Kevin Stuart Hanna 2022

"Globally, Environmental Impact Assessment (EIA) is one of the most enduring and influential environmental management tools. This Handbook provides readers with a strong foundation for understanding the practice of EIA, by outlining the different types of assessment while also providing a guide to best practice. This collection deploys a research and practice-based approach to the subject, delivering an overview of EIA as an essential and practical tool of environmental protection, planning, and policy. To best understand the most pertinent issues and challenges surrounding EIA today, this volume draws together prominent researchers, practitioners, and young scholars who share their work and knowledge to cover two key parts. The first part introduces EIA processes and best practices through analytical and critical chapters on the stages/elements of the EIA process and different components and forms of assessment. These provide examples that cover a wide range of assessment methods and crosscutting issues; including cumulative effects assessment, social impact assessment, Indigenous led assessment, risk assessment, climate change, and gender-based assessment. The second

part provides jurisdictional reviews of the European Union, the US National Environmental Policy Act, recent assessment reforms in Canada, EIA in developing economies, and the EIA context in England. By providing a succinct outline of process followed by in-depth illustrations of approaches, methods and tools, and case studies, this book will be essential for students, scholars, and practitioners of Environmental Impact Assessment"--

The Application of Science in Environmental Impact Assessment - Aaron J. MacKinnon 2018-01-12

This book charts the history of the application of science in environmental impact assessment (EIA) and provides a conceptual and technical overview of scientific developments associated with EIA since its inception in the early 1970s. The Application of Science in Environmental Impact Assessment begins by defining an appropriate role for science in EIA. From here it goes on to reflect more closely on empirical and deductive biophysical sciences as they relate to well-known stages of the generic EIA process and explores whether scientific theory and practice are at their vanguard in EIA and related applications. Throughout the book the authors reflect on biophysical science as it applies to stages of the EIA process and also consider debates surrounding the role of science as it relates to political and administrative dimensions of EIA. Based on this review, the book concludes that improvements to the quality of science in EIA will rely on the adoption of stronger participatory and collaborative working arrangements. Covering key topics including foundational scientific guidance materials; frameworks for implementing science amid conflict and uncertainty; and emerging ecological concepts, this book will be of great interest to students, scholars and practitioners of EIA.

Introduction To Environmental Impact Assessment - John Glasson 2005-09-30

First Published in 1994. Routledge is an imprint of Taylor & Francis, an informa company.

Introduction to Environmental Impact Assessment - Bram F. Noble 2015

This practical, step-by-step introduction to environmental impact assessment examines EIA tools, procedures, and methodology while taking into account both physical and human environments. With its interdisciplinary approach and extensive Canadian case studies, this text exposes students to EIA at work in the real world.

Introduction To Environmental Impact Assessment - John Glasson 2019-03-25

A comprehensive, clearly structured and readable overview of the subject, Introduction to Environmental Impact Assessment has established itself as the leading introduction to EIA worldwide. This fifth edition is a major update reflecting many significant changes in EIA procedures, process, practice and prospects over the last decade. In particular, it includes: a much more international dimension, drawing on EIA activities worldwide; an up-to-date coverage of the revised EU EIA Directive and its implementation; the associated update of contemporary UK procedures and practice; best practice on evolving methods in the EIA process; a rich array of UK and many international case studies; a new coverage of emerging EIA impact topics, including equality/deprivation; culture; resettlement; climate change; ecosystem services; and risk, resilience and cumulative impacts; an appraisal of some next steps in the EIA process, including a more effective and proportionate EIA; the impact of technological change; the changing interpretation of the project; project implementation, monitoring and adaptive management; and moves towards a more integrated impact assessment. Together, these topics act as a kind of action list for future EIA; the development of SEA legislation and practice in the UK, EU and worldwide; and a set of appendices containing key legislation and an EIS review framework. It is also makes full use of colour illustrations and chapter questions for discussion. Written by two authors with extensive research, training and consultancy experience of EIA, this book brings together the most up-to-date information from many sources. Introduction to Environmental Impact Assessment 5th Edition provides a complete, and critical, introductory text that also supports further studies. Students in undergraduate and postgraduate planning programmes will find it essential as a course text, as will students of environmental management/policy, environmental sciences/studies, geography and built environment. Key stakeholders involved in assessment activities – planners, developers, community groups, pressure groups and decision-makers in government and business – will also welcome this latest edition as a very effective means of getting to grips with the many facets of this important and evolving subject that affects a widening range of development projects.

Teaching Environmental Impact Assessment - Angus Morrison-

Saunders 2021-05-28

This comprehensive guide provides readers with strategies for teaching Environmental Impact Assessment (EIA) in all its forms, whether through formal university programmes or in the form of short courses offered to professionals and practitioners.

Evaluating Environmental and Social Impact Assessment in Developing Countries - Salim Momtaz 2013-04-05

Evaluating Environmental and Social Impact Assessment in Developing Countries is a valuable reference book for practitioners and researchers conducting research in and developing studies on environmental science and management and environmental and social impact assessment. The book's authors have developed and tested a new framework to evaluate environmental impact assessment (EIA) systems that may be adopted by most developing countries with EIA experience. Application of this framework will help determine if the EIA is achieving its intended goal of sustainable development in these countries. It also explains the reasons behind the strengths and weaknesses from which the development practitioners and international development partners can take lessons. This book will help the reader answer such questions as "What are the best forms of public participation?" and "How do we measure contributions to EIA procedure?" since it is based on direct experiences from a developing country that is struggling with many of these issues. Evaluating Environmental and Social Impact Assessment in Developing Countries provides further understanding of appropriate tools to evaluate environmental and social impacts of development initiatives especially in developing countries. Demonstrates the development of an integrated holistic method that presents new research in the field Offers a thorough analytical assessment of an EIA system in a developing country Presents valuable insights into how developing countries are coping with the new phenomenon of public participation and involvement in environmental decision making and what methods and techniques have been successful Includes a chapter on social impact assessment in developing countries with special focus on Bangladesh, providing valuable information applicable to developing countries

Environmental Impact Assessment - R R Barthwal 2002

Metals And Metalloids Are Ubiquitous Environmental Constituent And Cannot Be Broken Down To Non-Toxic Forms By The Biological System. Once The Ecosystem Is Contaminated With Them, They Remain As A Potential Hazard To Human Health For Many Years. Heavy Metals Are Particularly Important In This Respect. This Book, Which Is A Part Of Man And Environment Series, Discusses Diverse Issues Relating To Heavy Metals And Environmental And Human Health Problems.

The Need for Indigenous Knowledge in Environmental Impact Assessment - Seth Appiah-Opoku 2005

This book questions and explores the appropriateness of Western models of environmental impact assessment for Third World application. The book also examines Ghana's environmental impact assessment procedure and the potential role of indigenous knowledge and institutions in the assessment process, based on the results of a field research in Ghana. Finally, the book offers suggestions that could improve Ghana's environmental impact assessment procedure and facilitate its adoption in other developing countries, this book will be of interest to environmental assessment professionals and students, international development agencies, NGOs, planners, academicians, and policy makers looking for bottom-up and effective ways of incorporating environmental considerations in development projects in developing countries.

Environmental Impact Assessment - Charles H. Eccleston 2011-03-02

Under the best of circumstances, preparing an environmental impact assessment (EIA) can be a complex and challenging task. Experience indicates that the scope and quality of such analyses varies widely throughout the U.S. as well as internationally. Written to help practitioners and decision-makers apply best professional practices in the development of EIAs, *Environmental Impact Assessment: A Guide to Best Professional Practices* provides an in depth, yet practical direction for developing a defensible analysis that meets best professional practices. The book describes preparation of five distinct types of assessments: Cumulative Impact Assessment (CIA) Preparing Greenhouse Emission Assessments Preparing Risk Assessments and Accident Analyses Social Impact Assessment (SIA) and Environmental Justice The International Environmental Impact Assessment Process Guiding Principles To date, there is significant variation and disagreement about how such analyses should be prepared. The author introduces best professional practices (BPP) for preparing such EIAs that is intended to meet decision-making and regulatory expectations. He supplies a comprehensive and balanced skill set of tools, techniques, concepts, principles, and practices for

preparing these assessments. He also includes directions for developing a comprehensive Environmental Management Systems which can be used to monitor and implement final decisions for such analyses. While the book references the U.S. National Environmental Policy Act (NEPA), most of this guidance is generally applicable to any international EIA process consistent with NEPA. With thorough coverage of all aspects of assessments, the book presents a theoretical introduction to the subject as well as practical guidance. It delivers state-of-the-art tools, techniques, and approaches for resolving EIA problems.

The Application of Economic Techniques in Environmental Impact Assessment - David E. James 2013-03-09

The contribution of economic thought and method to environmental management needs practical illustration. Too few books on the subject achieve such an outcome. This book is among the notable exceptions. That economics can provide a powerful vehicle for communicating an integrated understanding of the often diverse scientific findings germane to environmental impact assessment needs to be illustrated convincingly. This book does just that. But it does more. It speaks across cultures: not to transfer know-how from one culture to another, but rather to activate an effective exchange of insights from one locale on the planet to another. As such, it is a genuine contribution to the great environmental exhortation of our times - think globally, act locally. Too often the people best placed to make such contributions are too committed to practical outcomes and making a living doing so. Just occasionally, however, they can be persuaded to make the special effort required to communicate globally. In this book, David James has once again orchestrated the contributions of virtuoso performers. In doing so he has emulated the contribution he sustained throughout the International Drylands Project and preparation of the books written with John Dixon and Paul Sherman: *The Economics of Dryland Management and Case Studies in Dryland Management* (Earthscan, London). Taken together with his recent work as Special Commissioner for the path breaking national Forest and Timber Inquiry for the Australian Government, we have a body of work characterised by great worthiness, integrity and true global significance. Using Risk Analysis for Flood Protection Assessment - Martina Zeleňáková 2017-02-07

This book explores the benefits of using risk analysis techniques in the evaluation of flood protection structures, and examines the results of the environmental impact assessment for selected planned flood protection projects. The objective of the book is to propose a methodology for environmental impact assessment in water management. In more detail, flood mitigation measures are investigated with the aim of selecting the best option for the approval process. This methodology is intended to streamline the process of environmental impact assessment for structures in the field of the water management. The book's environmental impact assessment system for water management structures analyzes the respective risks for different options. The results are intended to support the selection of future projects that pose minimum risks to the environment. Comparison of alternatives and designation of the optimal variant are implemented on the basis of selected criteria that objectively describe the characteristics of the planned alternatives and their respective impacts on the environment. The proposed Guideline for environmental impact assessment of flood protection objects employs multi-parametric risk analysis, a method intended to not only enhance the transparency and sensitivity of the evaluation process, but also successfully addresses the requirements of environmental impact assessment systems in the European Union. These modifications are intended to improve the outcomes of the environmental impact assessment, but may also be applied to other infrastructure projects. The case study proves that the primary aim - to improve transparency and minimize subjectivity in the environmental impact assessment process specific to flood protection structure projects - is met for the planned project in Kružlov, Slovakia.

The Theory and Practice of Strategic Environmental Assessment - Thomas B Fischer 2010-09-23

Anyone serious about integrating environmental factors into planning and policy making will gain new insights and ideas from Fischers book on SEA; and students, teachers and practitioners of the subject will find the book essential. Leonard Ortolano, Professor at Stanford University, USA Fischers book demystifies the process and substantive analytical dimensions of SEA. Offering solidly documented empirical evidence of the value of SEA to development, the knowledge captured in this book is a great contribution to the practice. Linda Ghanime, Environmental Operations and Policy Adviser, United Nations Development Program This book is an invaluable reference text for SEA practitioners. I recommend it

to everyone! Xu He, Professor and Director of the Strategic Environmental Assessment Center at Nankai University, China Fischer gives a concise and wellstructured account of SEA as it is used today. Readers thus will gain important insights into SEA: why it is important, how it works, and what it can and should achieve. Professor Thomas Bunge, Federal Environment Agency, Germany Strategic Environmental Assessment (SEA) is a fast-growing and rapidly evolving professional field driven by both advances in theory and practice and by regulatory requirements in Europe, North America, Australasia, South Africa and increasingly across Asia. However, to date, analysis of existing practice and associated reporting has remained far from systematic and there has been a clear need for a comprehensive textbook to facilitate teaching, learning and practice in this burgeoning field. This textbook, the first of its kind, provides for a state-of-the-art review of SEA theory and practice and promotes a more systematic approach to SEA. It is written for a wide student, professional and academic audience and aims particularly at supporting the development of SEA modules in undergraduate and postgraduate planning, environmental assessment, engineering and law courses. It provides an overview of the fundamental principles and rules of SEA, reports systematically on international SEA practice and theory and pushes the envelope by developing the theory. Supporting material includes boxed examples and case studies from around the world, extra reading suggestions and a glossary of terms. This is the essential book for all students, professionals and academics in SEA and EIA and follow-up worldwide.

Handbook of Environmental Impact Assessment - ARJUN. KUMAR A. RATHI 2021-05

Due to rapid economic growth and enhancing employment opportunities, manufacturing and infrastructural projects play a vital role, especially in developing nations. Even though voluminous literature is available on environmental impact assessment (EIA), guidelines on conducting good quality assessments are lacking. It may be recognized that good EIA reports can only facilitate government decision making with sustainability considerations. The book is the result of the review of more than 150 EIA reports and the analysis of shortcomings observed by the author. It will serve to bridge the gap in the limited understanding of EIA concepts by practitioners and practical aspects by fresh graduates. The book describes the output and salient features of a good quality EIA report and case studies to facilitate professionals preparing and appraising these reports. It will be of immense use to environment ministries, EIA practitioners, EIA appraisal authorities, project proponents, academics, and NGOs, especially in the emerging economies.

Key Methods in Geography - Nicholas Clifford 2016-05-17

"Practical, accessible, careful and interesting, this...revised volume brings the subject up-to-date and explains, in bite sized chunks, the 'how's' and 'why's' of modern day geographical study...[It] brings together physical and human approaches again in a new synthesis." —Danny Dorling, Professor of Geography, University of Oxford *Key Methods in Geography* is the perfect introductory companion, providing an overview of qualitative and quantitative methods for human and physical geography. This Third Edition Features: 12 new chapters representing emerging themes including online, virtual and digital geographical methods Real-life case study examples Summaries and exercises for each chapter Free online access to full text of *Progress in Human Geography* and *Progress in Physical Geography* Progress Reports The teaching of research methods is integral to all geography courses: *Key Methods in Geography*, Third Edition explains all of the key methods with which geography undergraduates must be conversant.

Sustainability Metrics and Indicators of Environmental Impact - Eduardo Jacob-Lopes 2021-07-16

Sustainability Metrics and Indicators of Environmental Impact: Industrial and Agricultural Life Cycle Assessment covers trending topics on the environmental impact of systems of production, putting emphasis on lifecycle assessment (LCA). This methodology is one of the most important tools of analysis, as mathematical models are applied that will quantify the systematic inputs and outputs of the processes in order to evaluate the sustainability of industrial processes and products. In this sense, LCA is mainly a tool to support environmental decision-making that analyzes the environmental impacts of products and technologies from a lifecycle perspective. The emergence of ever-larger global issues, such as the energy dilemma, the changing climate and the scarcity of natural resources, such as water, has boosted the search for tools capable of ensuring the reliability of the results published by the industries, and has become an important tool in order to achieve sustainability and environmental preservation. Thus, lifecycle assessment (LCA), including

carbon footprint valuation is necessary to ensure better internal management. Provides guidance on environmental impacts and the carbon footprint of industrial processes Features guidelines in lifecycle assessment to support a sustainable approach, along with quantifiable data to support proposed solutions Includes a companion website with slides and graphics to quantify environmental impact and other metrics of lifecycle assessment

Environmental Impact Assessment: A Practical Guide - Betty Bowers Marriott 1997-01-22

Providing information on the assessment and devaluation of environmental impacts, this study also discusses the fundamentals of preparing crystal clear environmental impact statements. Practical, real-life examples are included, as well as tips for identifying and avoiding potential pitfalls.

Methods of Environmental Impact Assessment - Peter Morris 2009-03-05

Environmental impact assessment (EIA) is now firmly established as an important and often obligatory part of proposing or launching any development project. Delivering a successful EIA needs not only an understanding of the theory but also a detailed knowledge of the methods for carrying out the processes required. Peter Morris and Riki Therivel bring together the latest advice on best practice from experienced practitioners to ensure an EIA is carried out correctly. This new edition: • explains how an EIA works and how it should be carried out • demonstrates the relationship of the EIA to socio-economic, environmental and ecological systems • includes completely updated legislative and policy contexts • has added explanations of shared and integrative methods including a new chapter on EIA and sustainability. Invaluable to undergraduate and MSc students of EIA in planning, ecology, geography and environment courses, this third edition of *Methods of Environmental Impact Assessment* is also of great use to planners, EIA practitioners and professionals seeking to update their skills.

Methods of Environmental Impact Assessment - Peter Morris 2001-08-23

Offers a comprehensive coverage of the methods used in environmental impact assessment, which is now firmly established as an obligatory procedure in proposing or launching any development project with possible impacts on the environment.

Introduction To Environmental Impact Assessment - John Glasson 2013-05-13

A clearly structured overview of a key subject, this work provides the student with not only a complete introductory text but also a book to support further studies. Written by three authors with extensive research and practical experience in Environmental Impact Assessment (EIA), the treatment is up to date and brings together currently fragmented information from many sources. EIA is now firmly on the agenda as a result of the introduction of legislation at both national and international levels, and is very much in tune with widespread and growing concern about environmental issues and the impact of development on the environment. First introduced in the USA in the 1970s, the application of EIA has been accelerated in Europe by the 1985 EC directive, which led to its introduction in the UK in 1988, since when it has been a major growth area in planning practice. The originally anticipated 20 environmental impact statements per annum have now grown to well over 300, for projects such as power stations, roads, new settlements, mineral extraction schemes, waste-disposal installations and tourism developments, and this is but the tip of the iceberg. Based on highly successful courses at one of the leading schools of planning, this book should serve the need for an introduction to EIA that goes beyond first principles and is informed by a wealth of teaching, research and practical experience. Students on undergraduate and postgraduate planning programmes should find it useful as a course text, as will students of environmental management/policy, environmental sciences/studies, geography and the built environment. Planners, developers and decision makers in government and business should also welcome the book as a very effective means of getting to grips with a key new subject which they must fully integrate with their other activities.

Combining Facts And Values In Environmental Impact Assessment - Eric L. Hyman 2019-03-05

First published in 1988. This book has grown from a research workshop that began at the University of North Carolina under the direction of Maynard Hufschmidt. Professor Hufschmidt's long-held interest in the incorporation of environmental and other social values into benefit-cost analysis led to a research project entitled, "The Role of Environmental Indicators in Water Resource Planning and Policy Development," funded by the U.S. Department of the Interior. That project brought together the authors of this volume for a two-year period during which the groundwork for this book was laid.

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.

Assessing and Measuring Environmental Impact and Sustainability - Jiří J Klemeš 2015-01-20

Assessing and Measuring Environmental Impact and Sustainability answers the question "what are the available methodologies to assess the environmental sustainability of a product, system or process? Multiple well-known authors share their expertise in order to give a broad perspective of this issue from a chemical and environmental engineering perspective. This mathematical, quantitative book includes many case studies to assist with the practical application of environmental and sustainability methods. Readers learn how to efficiently assess and use these methods. This book summarizes all relevant environmental methodologies to assess the sustainability of a product and tools, in order to develop more green products or processes. With life cycle assessment as its main methodology, this book speaks to engineers interested in environmental impact and sustainability. Helps engineers to assess, evaluate, and measure sustainability in industry Provides workable approaches to environmental and sustainability assessment Readers learn tools to assess the sustainability of a process or product and to design it in an environmentally friendly way

Impact Evaluation in Practice, Second Edition - Paul J. Gertler 2016-09-12
The second edition of the Impact Evaluation in Practice handbook is a comprehensive and accessible introduction to impact evaluation for policy makers and development practitioners. First published in 2011, it has been used widely across the development and academic communities. The book incorporates real-world examples to present practical guidelines for designing and implementing impact evaluations. Readers will gain an understanding of impact evaluations and the best ways to use them to design evidence-based policies and programs. The updated version covers the newest techniques for evaluating programs and includes state-of-the-art implementation advice, as well as an expanded set of examples and case studies that draw on recent development challenges. It also includes new material on research ethics and partnerships to conduct impact evaluation. The handbook is divided into four sections: Part One discusses what to evaluate and why; Part Two presents the main impact evaluation methods; Part Three addresses how to manage impact evaluations; Part Four reviews impact evaluation sampling and data collection. Case studies illustrate different applications of impact evaluations. The book links to complementary instructional material available online, including an applied case as well as questions and answers. The updated second edition will be a valuable resource for the international development community, universities, and policy makers looking to build better evidence around what works in development.

Handbook of Environmental Impact Assessment - Arjun Kumar A. Rathi 2021-03-29

Due to rapid economic growth and enhancing employment opportunities, manufacturing and infrastructural projects play a vital role, especially in developing nations. Even though voluminous literature is available on environmental impact assessment (EIA), guidelines on conducting good

quality assessments are lacking. It may be recognized that good EIA reports can only facilitate government decision making with sustainability considerations. The book is the result of the review of more than 150 EIA reports and the analysis of shortcomings observed by the author. It will serve to bridge the gap in the limited understanding of EIA concepts by practitioners and practical aspects by fresh graduates. The book describes the output and salient features of a good quality EIA report and case studies to facilitate professionals preparing and appraising these reports. It will be of immense use to environment ministries, EIA practitioners, EIA appraisal authorities, project proponents, academics, and NGOs, especially in the emerging economies.

Environmental Impact Assessment - Peter Wathern 2013-02-01

This comprehensive treatment of environmental impact assessment (EIA) provides an authoritative contemporary review of theory and practice over the past ten years. EIA is viewed as both science and art, reflecting the concern both with technical aspects of appraisal and the effects of EIA on the decision-making process. Adopted in many countries, with different degrees of enthusiasm, since its inception in the early 1970's, EIA is established as a major procedure for assessing the environmental implications of legislation, the implementation of policy and plans and the initiation of development projects. EIA is increasingly an essential part of environmental management

Introduction to Environmental Impact Assessment - John Glasson 2005

Introduction to Environmental Impact Assessment 3rd Edition not only provides a complete introductory text but will also support further studies. Students on undergraduate and postgraduate planning programmes will find it essential as a course text, as will students of environmental management/policy, environmental sciences/studies, geography and built environment. Planners, developers and decision-makers in government and business will also welcome this new edition as a very effective means of getting to grips with this important subject.

Environmental Impact Analysis - James T. Maughan 2017-03-29

There are thousands of environmental analyses prepared each year to meet the requirements of the National Environmental Policy Act (NEPA) and similar programs. Written by an expert with 35 years of experience in environmental consulting, research, and education, Environmental Impact Analysis: Process and Methods makes the preparation of EIAs not only easier but more thorough. It provides a guide to successfully preparing analyses that are legally defensible; establish the base for environmental protection; and produce better projects, plans, and policies. Following an informal description of the legal requirements, the book breaks down the analysis process into a logical flow of steps and available methods to identify impacts, compare alternatives, and develop impact mitigation measures. The author illustrates each step and analysis method with examples from case studies he managed, providing insight not available from an independent review of the cases. He offers a comprehensive and consistent approach to analysis with each chapter building on information presented in previous sections. The book also describes methods from other programs such as hazardous waste clean-up and Natural Resources Damage Assessment and explains how they can be adapted for use in environmental impact analysis. It compares a diverse array of multi-level environmental impact analysis approaches. Readers learn not only how to produce an environmental document that meets regulations but also clearly maximizes the benefits of the analysis and results in a more useful product with strong stakeholder support.

Methods of Environmental and Social Impact Assessment - Riki Therivel 2017-09-13

Environmental and social impact assessment (ESIA) is an important and often obligatory part of proposing or launching any development project. Delivering a successful ESIA needs not only an understanding of the theory but also a detailed knowledge of the methods for carrying out the processes required. Riki Therivel and Graham Wood bring together the latest advice on best practice from experienced practitioners to ensure an ESIA is carried out effectively and efficiently. This new edition: • explains how an ESIA works and how it should be carried out • demonstrates the links between socio-economic, cultural, environmental and ecological systems and assessments • incorporates the World Bank's IFC performance standards, and best practice examples from developing as well as developed countries • includes new chapters on emerging ESIA topics such as climate change, ecosystem services, cultural impacts, resource efficiency, land acquisition and involuntary resettlement. Invaluable to undergraduate and MSc students of ESIA on planning, ecology, geography and environment courses, this internationally oriented fourth edition of *Methods of Environmental and Social Impact*

Assessment is also of great use to planners, ESIA practitioners and professionals seeking to update their skills.

Environmental Impact Assessment - Christopher Wood 2003
This work presents an accessible, comparative, step-by-step review of international EIA procedures and practice.