

Introduction To Environmental Impact Assessment A To Principles And Practice

A revised text featuring more case studies, illuminating the role of consultants, clients, local authorities and environmental agencies in the EIA process, and procedures and conventions for assessment arising out of changes in the legal and political context since the first edition was published.

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.

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 (EIA) is a well-established instrument of Environmental Law and policy that aims to ensure that potential adverse environmental effects of human activities are assessed before decisions on such activities are made. The instrument is increasingly being applied in respect of activities that may cause environmental effects across the borders of a state. In this book, thirteen systems of Transboundary Environmental Impact Assessment (TEIA) are assessed that exist or are in development in different parts of the world. Although TEIA is generally associated with EIA between territorial states, this book takes a broader approach and is divided into three sub-parts: Transboundary EIA between states, EIA for activities in international and shared areas, and EIA required by international financial institutions. Knowledgeable experts (scholars and practitioners) provide an overview of the history, content, and practice of the individual systems and, based on these discussions, the state of the art concerning TEIA and possible future developments are discussed.

An Introduction to Environmental Impact Assessment

A Course Book

A Guide to Principles and Practice

Increasing The Relevance And Utilization Of Scientific And Technical Information

Health Impact Assessment

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.

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

Strategic Environmental Assessment (SEA) is a new approach to environmental assessment, global in scope, which considers the environmental impacts of policies, plans and programmes. It is already in use in a number of countries and is rapidly being adopted by those involved with environmental management and regulation, including governments,

official and voluntary sector agencies, academic courses and consultancies. This text defines and analyzes SEA within the overall context of environmental assessment. It introduces and reviews the current state of SEA, evaluates its application in a number of countries with a range of detailed case studies, provides a critique of its techniques and an analysis of its importance for the future.

This book is the first to give a comprehensive overview of the concepts, theory, techniques and applications of Health Impact Assessment (HIA) to aid all those preparing projects or carrying out assessments. It draws on examples and thinking from many different disciplines and many parts of the world. It identifies the areas of agreement and the questions remaining unanswered. It maps a confused field and signposts possible directions for future progress. HIA is intended to help decision makers in all areas foresee the consequences of their decisions, to ensure the consequences are considered and reduce the risk of population health being damaged through some indirect and unintended consequence of a decision. [Editor]

Introduction to Environmental Impact Assessment

An Introduction

Methods of Environmental and Social Impact Assessment

Methods of Environmental Impact Assessment

Practical Solutions to Recurrent Problems

This practical, step-by-step introduction to environmental assessment examines EA 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 EA at work in the real world. Contains approximately 30 representative and exciting articles by leading academics in the field on the nature of contemporary developmental issues. Using the 'development debate' as its organizing theme, this accessible work discusses such topics as theories and models of development, survival strategies and the weapons of the weak and new directions including democratization, environmental sustainability and citizenship.

Introduction To Environmental Impact Assessment Routledge

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.

Principles and Practice

Handbook of Environmental Impact Assessment

Unknown MIR Title

A Comparative Review

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.

This work has been designed as a primary teaching text in environmental impact assessment (EIA). It focuses on procedural training, with an emphasis on good principles and practice and provides a number of case studies from all over the globe.

Fuzzy logic enables people preparing environmental impact statements to quantify complex environmental, economic and social conditions. This reduces the time and cost of assessments, while producing justifiable results.

Written and edited by an authoritative team of internationally known experts in environmental impact assessment (EIA), this is the first book to present in a coherent manner the theory and practice of EIA and strategic environmental assessment (SEA) follow-up. Without some form of follow-up, the consequences of impact assessments and the environmental outcomes of development projects will remain unknown.

Assessing Impact examines both EIA follow-up and the emerging practice of SEA follow-up, and showcases follow-up procedures in various countries throughout Europe, North America and Australasia. Theoretical and legislative perspectives are examined in the light of detailed case study examples, and the authors present a micro-, macro- and meta scale analysis of EIA practice ranging from individual plan and

project level through to the jurisdictional level, as well as an analysis of the concept of EIA. Full coverage is given to the roles of proponents, both private and governmental, EIA regulators and the affected public in designing and executing follow-up programmes. This book is the must-have tool for impact assessment professionals, academics, regulators and proponents working on projects of all scales in all jurisdictions.

Planning and Environmental Impact Assessment in Practice

An Introduction to Environmental Assessment

Introduction To Environmental Impact Assessment

Environmental Impact Assessment

Principles and Procedures, Process, Practice, and Prospects

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.

Very few books exist on how EIA should be carried out for specific environmental components. Whereas its sister volume, Introduction to environmental impact assessment, concentrates on the EIA principles, procedures and prospects, Methods of environmental impact assessment concentrates on the methods applied for the environmental components. It does not attempt to make specialists of its readers, but aims to foster better communication between experts, a better understanding of how EIAs should be carried out, and better EIA-related decisions. Taken together, the two books provide a comprehensive coverage of the theory and practice of EIA.

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

Process and Methods

Standards and Thresholds for Impact Assessment

Advanced Introduction to Environmental Impact Assessment

Practice and Participation

An introduction to methods for environmental impact assessment

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.

Environmental Impact Assessment (EIA) is a fast-growing field of land-use planning affecting many disciplines. At present, UK Government legislation requires EIA for certain types of development. Subject to a further new European directive, an EIA will be required for all policies, plans and programmes. Planning and Environmental Impact Assessment in Practice provides a practical introduction to the subject and relates the theory to the practice through extensive use of case studies. Edited by Joe Weston, the book draws on contributions from a number of practising experts in the field and covers topics such as: assessing the need for EIAs; the environmental team; scoping and public participation; internal and external consultation; local lobbying; local authority review and decision-making; public enquiries; monitoring the impacts; pollution control; and the lessons to be learned. Planning and Environmental Impact Assessment in Practice provides a practical introduction to EIA for final year undergraduate and postgraduate MSc courses in planning, geography, civil engineering, building and estate management, and development.

This book challenges the prevailing assumption that Environmental Impact Assessment (EIA) should be structured around a unitary EIA process. The book begins by identifying, through a scenario, eight recurrent problems in EIA practice. The characteristics of multiple variations of conventional EIA processes, at both the regulatory and applied levels, are then presented. The residual problems that remain after the conventional processes are described and assessed providing the springboard for a description and analysis of eight alternative EIA processes.

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.

Handbook of EIA and SEA Follow-up

Theory and Practice

The Application of Science in Environmental Impact Assessment

Evaluating Environmental and Social Impact Assessment in Developing Countries

Environmental Assessment in Practice

Standards and Thresholds play an important role in many stages of the Environmental Impact Assessment (EIA) process. They can be legally binding or guidance values and are linked to environmental data. This book provides a comprehensive collection of standards and thresholds, with their derivation and application in case studies of EIA projects. The text introduces key drivers of standards, their effect on environment and health, emerging issues and more.

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. 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.

This brochure is intended for all audiences concerned with decision and policy making in regard to the environment and sustainable development. There are many different types of environmental assessment methods available to support decision making at global, regional, national and local levels, and this guide aims serve as a useful, quick-reference source of information.

Deciphering EIA

Improving Impact Assessment

Routledge Handbook of Environmental Impact Assessment

Volume 2: Impact and Limitations

Quantifying Environmental Impact Assessments Using Fuzzy Logic

Health Impact Assessment (HIA) is primarily concerned with the future consequences of plans, proposals and policies on the health of communities. It is a rapidly growing complement to Environmental Impact Assessment, increasingly mandated by national and international requirements. Guidelines have been produced by many national and international organizations and it is being introduced in a number of undergraduate or postgraduate university curricula. However, there has been until now no broad-based, introductory text of international scope

to the subject, suitable for both these courses and for professional training. The purpose of this book is to fill this gap and to introduce the subject of Health Impact Assessment using plain language, in both general and specific contexts and with reference to both market and less developed economies. As a result, the reader should be able to describe what HIA can and cannot achieve, identify the components of a successful HIA and participate in an assessment as a member of a team. Examples are provided from a number of planning and development sectors, including extractive industry, water resource management, and housing. The reader, whether student or professional, need not be a health specialist, although prior knowledge of some public or environmental health would be an advantage.

Environmental Impact Assessment (EIA) has become a vital management tool worldwide. EIA is a means of evaluating the likely consequences of a proposed major action which will significantly affect the environment, before that action is taken. This new edition of Wood's key text provides an authoritative, international review of environmental impact assessment, comparing systems used in the UK, USA, the Netherlands, Canada, the Commonwealth of Australia and New Zealand and South Africa.

This text explains what constitutes good practice in applying environmental assessment as an environmental management tool. A wide range of case studies and other student text features are employed to demonstrate how the different methods, techniques and disciplines of environmental assessment can be used. The authors address the key concepts for environmental assessment procedures: methods for using E.A.; techniques for impact prediction and evaluation; environmental risk assessment; EA consultation and participation; project management; environmental statement review and post-project analysis; and strategic environmental assessment. Worldwide case studies include: gas pipelines, hydroelectric power plants, gold mining, river crossings, waste-to-energy plants and gravel extraction in England, Scotland, Ireland, Canada, the USA, Venezuela, the Netherlands, Iceland, Zambia, Zimbabwe, South Africa and Ghana.

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.

Strategic Environmental Assessment

Environmental and Social Impact Assessment

A Guide to Best Professional Practices

Environmental Impact Assessment for Developing Countries

Assessing Impact

Through twenty-one chapters that examine current debates, recent cases, and ongoing developments in Canadian EIA, Environmental Impact Assessment reflects the diversity of issues EIA processes now address.

Elgar Advanced Introductions are stimulating and thoughtful introductions to major fields in the social sciences and law, expertly written by the world's leading scholars. Designed to be accessible yet rigorous, they offer concise and lucid surveys of the substantive and policy issues associated with discrete subject areas. The Advanced Introduction to Environmental Impact Assessment explores the unifying and universal principles at the heart of Environmental Impact Assessment (EIA) wherever it may be practiced worldwide. This overview of the field by Angus Morrison-Saunders emphasizes the big ideas upon which EIA was founded and which remain central to theory and practice today. In a nutshell, EIA is essentially about thinking before acting. Key Features include: * A reminder of the fundamental ideas promoted by the pioneers and early writers about EIA * Consideration of environment and development and how the two come together in EIA * A short and concise overview of international best practice EIA principles as they apply today * Reflections on the increasing need to adopt a holistic, sustainability-oriented approach to EIA. This book is relevant to all stakeholders involved in EIA including practitioners, researchers, and teachers. It will also appeal to university students studying engineering, environmental science, geography, sustainability, and policy studies.

Environmental Impact Analysis

Theory and Practice of Transboundary Environmental Impact Assessment