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Introduction To

Environmental

Theory and

Practice describes

the various pieces

of knowledge

necessary to

speak the

language of EIA

and carry out EIAs

focusing on a

variety of

environmental

issues, including

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impacts on

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components, like

Principles And

air, water, soils,

Practice

land, noise and

biological

environments.

Organized into 15

chapters, the book

provides engineers

with the tools and

methods to

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conduct an effective assessment, including report preparations, design measures and relevant mitigation steps that can be taken to reduce or avoid negative effects. Case Studies are

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presented,

Impact.

providing guidance

professionals can

use to better

understand, plan

and prepare

environmental

impact

assessments.

Presents detailed

methodologies for

air pollution

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control, waste

Impact
treatment

schemes, Assessment To

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phytoremediation,

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bioremediation,

hazardous waste,

green belt

development and

rainwater

harvesting

Highlights

concepts and

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definitions of EIA

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and the planning

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and management

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of EIA study

Discusses the

impacts on valued

environmental

components, like

air, water, soils,

land, noise, and

biological and

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environments in a
systematic manner
The experience of
highly
industrialized
countries
demonstrates that
single-minded
pursuit of
economic develop
ment is self-

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defeating because, by disregarding the other components of what is commonly called "the quality of life", it creates conditions which are not acceptable to large sectors of the population. In the recent past a

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number of projects, for example, major dams, have had unexpectedly deleterious social, environmental and health consequences. As a result, many government department and

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agencies are investigating the impacts of specific projects and are examining the role impact analysis could play in project planning. The process of environmental impact analysis has been

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developed, tested and institutionalized in several countries.

The objective of the process is a prior identification and definition of likely environmental impacts of projects such as public

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works, industrial developments and tourist developments, as well as the impact of policies and legislative proposals. The environmental impact analysis process also includes the

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definition of
alternative courses
of action which
would achieve
comparable
economic
objectives while
eliminating some
or all of the
detrimental
environmental
consequences.

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Identification of preventive or precautionary measures, which would minimize the unavoidable impacts, form an integral part of the process. The aim should be for a balanced appraisal in which economic,

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technical, social, environmental and health aspects are fully evaluated.

Thus viewed, environmental impact analysis emerges as one of the most powerful planning tools for the prevention of environmental

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pollution and

degradation.

This text explains

what constitutes

good practice in

applying

environmental

assessment as an

environmental

management tool.

A wide range of

case studies and

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other student text

features are

employed to

demonstrate how

the different

methods,

techniques and

disciplines of

environmental

assessment can

be used. The

authors address

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the key concepts
for environmental
assessment
procedures:
methods for using
E.A.; techniques
for impact
prediction and
evaluation;
environmental risk
assessment; EA
consultation and

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participation;
project
management;
environmental
statement review
and post-project
analysis; and
strategic
environmental
assessment.

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studies include:

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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

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Netherlands,
Iceland, Zambia,
Zimbabwe, South
Africa and Ghana.
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Assessment (EIA)

has become a vital
management tool
worldwide. EIA is a
means of
evaluating the

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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

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review of
environmental
impact
assessment,
comparing
systems used in
the UK, USA, the
Netherlands,
Canada, the
Commonwealth of
Australia and New
Zealand and South

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social impact

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assessment

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(ESIA) is an

important and

often obligatory

part of proposing

or launching any

development

project. Delivering

a successful ESIA

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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

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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

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carried out •

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demonstrates the

Assessment To

links between

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socio-economic,

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cultural,

environmental and

ecological systems

and assessments

• incorporates the

World Bank's IFC

performance

standards, and

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best practice

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examples from

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developing as well

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countries •

includes new

chapters on

emerging ESIA

topics such as

climate change,

ecosystem

services, cultural

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Impacts, resource

efficiency, land

acquisition and

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involuntary
resettlement.

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undergraduate and

MSc students of

ESIA on planning,

ecology,

geography and

environment

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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

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their skills.

It will be useful for project managers as well as students and the community sector."--BOOK

JACKET

The impacts of climate change are beginning to be felt throughout the world, yet there is

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no clear explanation as to how these changes will alter our future. The research being conducted within the geospatial science field is pivotal to understanding the effects the global

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experiencing. The

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Science and

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essential scholarly

reference source

that evaluates the

current

methodologies and

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science, and how

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these insights

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provide society

with more efficient

and effective ways

to manage natural

resources.

Featuring

discussions on

relevant topics

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cartography,

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geographical

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systems, remotely

sensed data, and

sustainability

management, this

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resource for all

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students,

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scientists, and

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researchers that

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are interested in

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emerging

developments

within geospatial

science.

This new

introduction to

impact

assessment

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examines the tools and approaches which try to ensure that the process of development follows the best possible course. Presupposing no prior knowledge of the subject it considers the concepts, methods

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and practice of

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assessment, and

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capabilities,

characteristics and

limitations. The

book includes

coverage of both

environmental and

social impact

assessment and

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emphasizes the importance of their use in advance of the decision-making process.

An extensive bibliography, suggestions for further reading, and a glossary of terms are also provided. Barrow's

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accessible new

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text is essential

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reading for those

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approaching the

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subject for the first

time, whether from

a science or a

social science

background.

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Proceedings of the

Annual WHO

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on Environmental

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Centre for

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Management and

Planning,

University of

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Assessment (EIA)
Simplified @ GrG
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Assessment
Handbook, Third
Edition
A Guide to
Principles and
Practice
Theory and

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Process and

Methods

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An introduction to environmental impact assessment, this text is designed to be used by students of planning, environmental studies and

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geography.

This

comprehensive To

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readers with

strategies for

teaching

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Impact Assessment

(EIA) in all its

forms, whether

through formal

university

programmes or in

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the form of short courses offered to professionals and practitioners. Offers a comprehensive coverage of the methods used in environmental impact assessment, which is now firmly established as an obligatory

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procedure in

proposing or

launching any

development

project with

possible impacts

on the

environment.

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A clearly

structured

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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

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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

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international
Impact levels, and is very
much in tune with

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widespread and
growing concern
about

environmental
issues and the
impact of
development on
the environment.

First introduced in
the USA in the
1970s, the

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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

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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

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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

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wealth of teaching,

research and

practical

experience.

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undergraduate and

postgraduate

planning

programmes

should find it

useful as a course

text, as will

students of

environmental man

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sciences/studies,

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Planners,

developers and

decision makers in

government and

business should

also welcome the

book as a very

effective means of

getting to grips

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with a key new
subject which they

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must fully
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integrate with

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their other
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activities.

This book is about

a subject that

Michael Greenberg

has worked on and

lived with for

almost forty years.

He was brought up

in the south Bronx

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at a time when his neighborhood suffered from terrible air and noise pollution, and domestic waste went untreated into the Hudson River. For him, the National Environmental Policy Act (NEPA) was a blessing. It included an ethical

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position about the environment, and the law required some level of accountability in the form of an environmental impact statement, or EIS. After forty years of thinking about and working with NEPA and the EIS process, Greenberg decided

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to conduct his own evaluation from the perspective of a person trained in science who focuses on environmental and environmental health policies. This book of carefully chosen real case studies goes beyond the familiar checklists

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of what to do, and shows students and practitioners alike what really happens during the creation and implementation of an EIS.

Due to rapid economic growth and enhancing employment opportunities, manufacturing and

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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

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Impact 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

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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

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report and case
Impact studies to facilitate

professionals To

preparing and

appraising these

reports. It will be

of immense use to

environment

ministries, EIA

practitioners, EIA

appraisal

authorities, project

proponents,

academics, and

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NGOs, especially in the emerging economies.

There are thousands of environmental analyses prepared each year to meet the requirements of the National Environmental Policy Act (NEPA) and similar programs. Written

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consulting,

research, and

education,

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Impact Analysis:

Process and

Methods makes

the preparation of

EIAs not only

easier but more

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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

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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

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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

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analysis with each
chapter building

on information To

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presented in
previous sections.

The book also

describes methods

from other

programs such as

hazardous waste

clean-up and

Natural Resources

Damage

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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

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document that
meets regulations

but also clearly

maximizes the

benefits of the

analysis and

results in a more

useful product with

strong stakeholder

support.

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This work has been designed as a primary teaching text in environmental impact assessment (EIA). It

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focuses on procedural training, with an emphasis on good principles and practice and provides a number of case studies from all over the globe.

First published in 1997, this volume examines wastewater treatment plants in the UK and their counterparts in Germany in the wake of the International Study

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of the Effectiveness of
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Assessment (1996).
Principles And
United States National
Practice
Environment Policy Act
of 1969, the basic
concept of EIAs has
been adopted around the
world and are highly
diverse today. This
study aims to examine,
compare and suggest
improvements for EIA

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practices as applied to
wastewater treatment in
the UK and Germany.

This book examines the
crucial role of EIA in
government decision-
making in Europe, the
Nordic countries, North
America, Asia and the
Pacific.

This comprehensive
treatment of
environmental impact
assessment (EIA)

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provides an
authoritative

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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

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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

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essential part of
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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

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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.

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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

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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

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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,

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sustainability, and
policy studies.

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

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integrated and
participative decision-
making. This handbook

Principles And

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

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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

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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

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practice in Europe,

Impact Africa, the Far East,

Assessment To South America and

Principles 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

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consultants involved in this significant field. 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

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well as internationally.

Written to help

practitioners and

decision-makers apply

best professional

practices in the

development of EIAs,

Environmental Impact

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Best Professional

Practices provides an in

depth, yet practical

direction for developing

a defensible analysis

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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

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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

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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

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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

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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 world's ecosystems are increasingly threatened by human development.

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Ecological impact assessment (EcIA) is used to predict and evaluate the impacts of development on ecosystems and their components, thereby providing the information needed to ensure that ecological issues are given full and proper consideration in development planning. Environmental impact

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assessment (EIA) has emerged as a key to sustainable development by integrating social, economic and environmental issues in many countries. EcIA has a major part to play as a component of EIA but also has other potential applications in environmental planning and management.

Ecological Impact

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Assessment provides a comprehensive review of the EcIA process and

summarizes the

ecological theories and

tools that can be used to

understand, explain and

evaluate the ecological

consequences of

development proposals.

It is intended for the

many individuals and

companies involved in

EIA and EcIA, as well

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as other areas of environmental management where impacts on ecosystems need to be evaluated. It will benefit planners, regulators, environmental consultants and scientists and will also provide an invaluable sourcebook and guide for the growing number of undergraduate

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students taking courses in applied ecology, EIA and related topics in environmental science.

A practical management guide for the increasing numbers of practitioners of EcIA. A rapidly expanding subject driven by the proliferation of environmental legislation worldwide.

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This practical,
step-by-step
introduction to

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examines EIA
Principles And
tools,
procedures, and
methodology
while taking
into account
both physical
and human
environments.
With its interdi
disciplinary

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approach and
extensive
Canadian case
studies, this
text exposes
students to EIA
at work in the
real world.
This book
challenges the
prevailing
assumption that
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should be structured To Principles And Practice around a unitary EIA process. The book begins by identifying, through a scenario, eight recurrent problems in EIA practice. The characteristics of multiple

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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

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assessed

providing the

springboard for

a description

and analysis of

eight

alternative EIA

processes.

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Assessment (EIA)

is a fast-

growing field of

land-use

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affecting many
disciplines. At
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legislation
requires EIA for
certain types of
development.
Subject to a
further new
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directive, an
EIA will be

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required for all
policies, plans
and programmes.

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provides a

practical

introduction to

the subject and

relates the

theory to the

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practice through
extensive use of

case studies. To

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Practice, the book

draws on

contributions

from a number of

practising

experts in the

field and covers

topics such as:

assessing the

need for EIAs;

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the
environmental
team; scoping
and public
participation;
internal and
external
consultation;
local lobbying;
local authority
review and
decision-making;
public
enquiries;

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provides a

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EIA for final
year

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undergraduate

and postgraduate

MSc courses in

planning,

geography, civil

engineering,

building and

estate

management, and

development.

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in 1994.

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Routledge is an imprint of Taylor & Francis, an informa company. Environment Impact Assessment: Precept & Practice deals with theoretical, practical, managerial and

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legal issues in
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tool for
sustainable

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issues in
dexterous detail
to cater erudite
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planners besides fulfilling the void of curriculum and pedagogic requirements of technical universities, environmental management and legal studies. The book offers diversity of thoughts across

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Assessment (EIA)

is a well-

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Law and policy

that aims to

ensure that

potential

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effects of human

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activities are

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decisions on

such activities

are made. The

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increasingly

being applied in

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activities that

may cause

may cause

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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

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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

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EIA between states, EIA for activities in international and shared areas, and EIA required by international financial institutions. Knowledgeable experts (scholars and practitioners)

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provide an
overview of the

history,

principles, and

practice of the

individual

systems and,

based on these

discussions, the

state of the art

concerning TEIA

and possible

future

developments are

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discussed.

This important Handbook is an essential guide to the state-of-the-art concepts, debates and innovative practices in the field of cumulative impact assessment. It

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helps to
strengthen the
foundations of
this challenging
field, identify
key issues
demanding
solutions and
summarize recent
trends in
forward
progress,
particularly
through the use

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Assessment in

Developing

Countries is a

valuable

reference book

for

practitioners

and researchers

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conducting
research in and
developing
studies on
environmental
science and
management and
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and social
impact
assessment. The
book's authors
have developed
and tested a new

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framework to

evaluate

environmental

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assessment (EIA)

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systems that may

be adopted by

most developing

countries with

EIA experience.

Application of
this framework
will help

determine if the

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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

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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

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measure
contributions to
EIA procedure?"

Principles And Practice

since it is
based on direct
experiences from
a developing
country that is
struggling with
many of these
issues.

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and Social

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provides further
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initiatives

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especially in
developing
countries.

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Demonstrates the
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holistic method
that presents
new research in
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and techniques
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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

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justifiable results.

Through twenty-

one chapters that

examine current

debates, recent

cases, and ongoing

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reflects the

diversity of issues

EIA processes now

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has established

itself as the

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worldwide. This

fifth edition is a

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major update

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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-

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*to-date coverage of
the revised EU EIA*

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in the EIA process;

a rich array of UK

and many

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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

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impacts; an appraisal of some

next steps in the

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including a more

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change; the

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interpretation of

the project; project

implementation,

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*monitoring and
adaptive*

management; and

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*more integrated
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assessment.

*Together, these
topics act as a kind
of action list for
future EIA; the
development of
SEA legislation
and practice in the*

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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

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*extensive research,
training and*

*consultancy To
experience of EIA,*

*this book brings
together the most*

up-to-date

*information from
many sources.*

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*Key stakeholders
involved in*

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community groups,

pressure groups

and decision-

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welcome this latest

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with the many

facets of this

important and

evolving subject

that affects a

widening range of

development

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projects.

*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*

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*inception in the
early 1970s. The*

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begins by defining

an appropriate role

for science in EIA.

From here it goes

on to reflect more

closely on

empirical and

deductive

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biophysical sciences as they

relate to well-

known stages of

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process and

explores whether

scientific theory

and practice are at

their vanguard in

EIA and related

applications.

Throughout the

book the authors

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reflect on

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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

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*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*

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materials;

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science amid

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uncertainty; and

emerging

ecological

concepts, this book

will be of great

interest to

students, scholars

and practitioners

of EIA.

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Assessment, is a subject that deals with the impacts of any project on the environment and all the ecosystems connected with it. There are certain procedures that are standardised, which we follow

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*from the beginning
of a project before*

it is sanctioned.

*The book covers a
study of almost all*

the possible

*impacts upon the
surrounding*

*environment and
the efforts to*

*control or mitigate
them before the*

project's

commencement or

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during the development of the

project or after its

execution. Certain

issues surrounding

the

implementation of

projects inducing

air or water

pollution can be

mitigated through

certain

standardisations

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*concentration of
pollutants that is*

allowed in the

upper limits. Also,

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before and after

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carried out and

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to reduce the

impacts further....

Health Impact

Assessment (HIA)

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is primarily concerned with the

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a rapidly growing

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Assessment,

increasingly

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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

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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

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*gap and to
introduce the*

subject of Health

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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

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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

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extractive industry,

water resource

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reader, whether

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not be a health

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some public or

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health would be an

advantage.

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for Developing To

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overview and

general

considerations of

balance

environmental

impact assessment

(EIA), with

particular

emphasis in the

developing

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countries in Asia.

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Part II highlights

various EIA

performed in

different industry,

including chemical

plants, coal

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and power plant,

and solid waste

disposal. This part

also describes the

simulation

modeling in EIA.

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This part

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projects in

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Sweden,

Philippines,

Tanzania, Canada,

India, and United

Kingdom. Part IV

provides a

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prove useful to

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research scientists.*

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