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ls Of

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Physical
Geography

Understanding
the fundamentals
of conducting
good science,
that will have
an impact, is
the goal of
every aspiring
scientist.
Providing a
wealth of tips,
How to be a
Better Scientist
is the book to

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

read if you want
to succeed in
this competitive
field. Helping
readers gain an
insight into
what good
science means
and how to
conduct it, this
book is ideal to
read cover-to-
cover or dip
into. It

Read Book
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Hydrology
includes easily
accessible
guidance on
topics such as:

- What characteristics should a scientist have?
- Understanding the hypothesis
- Integrity in science
- Lack of confidence and the

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Hydrology

embarrassment

factor • Time

management •

Coping with

rejection •

Interacting with

the science

community With

its broad focus,

this friendly

guide will

enthuse, inspire

and challenge,

and is an

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Hydrology
essential
Routledge
companion for
Fundamentals Of
all aspiring
Physical
scientists.

Water Resources
Geography
and Development
explores water
management
strategies
through
scientific,
social and
political
perspectives,

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Hydrology
and uses case
Routledge
studies to
Fundamentals Of
exemplify four
Physical
key development
Geography
challenges:
economic growth,
poverty
reduction,
competition and
conflict over
water, and
adaptation to
climate change
Fundamentals of

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Hydrology
Routledge
Routledge

This extensively
revised and
updated third
edition of
Fundamentals of
Geomorphology
presents an
engaging and
comprehensive
introduction to
geomorphology,
exploring the

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Hydrology
world's
Routledge
landforms from a
Fundamentals Of
broad systems Of
Physical
perspective. It
Geography
reflects the
latest
developments in
the field and
includes new
chapters on
geomorphic
materials and
processes,
hillslopes and

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Hydrology
changing
Routledge
landscapes .

Hydrology and
Global
Physical
Environmental
Geography
Change presents
the hydrological
contribution to,
and consequences
of, global
environmental
change. Assuming
little or no
prior knowledge

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

on the part of
the reader, the
book looks at
the main
processes of
global
environmental
change - global
scale processes,
large regional
processes,
repetitive
processes - and
how the

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Hydrology
hydrological
Routledge
cycle, processes
Fundamentals Of
and regimes
Physical
impact on GEC
Geography
and vice-versa.
Physics for
Geologists,
Second Edition
Fundamentals of
Soils
Science and
Society
Global Hydrology
Water Resources

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Hydrology
and Development
Routledge
Physical
Fundamentals Of
Geography: The
Physical
Key Concepts
Geography
is a thought-
provoking and
up-to-date
introduction
to the central
ideas and
debates within
the field. It

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provides
Routledge
extended
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definitions of
Physical
terms that are
Geography
fundamental to
physical
geography and
its many
branches,
covering
topics such
as:

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Hydrology
biogeography
Routledge
ecology
Fundamentals Of
climatology
Physical
meteorology
Geography
geomorphology
hydrology
pedology
Complete with
informative
tables,
diagrams, and
suggestions

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Hydrology

for further
Routledge
Fundamentals Of
Physical
Geography
reading, this
is a highly
accessible
guide for
those studying
physical
geography and
related
courses.

Mobility is
fundamental to

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Hydrology
economic and
Routledge
social
Fundamentals Of
activities
Physical
such as
Geography
commuting,
manufacturing,
or supplying
energy. Each
movement has
an origin, a
potential set
of

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Hydrology
intermediate
Routledge
locations, a
Fundamentals Of
destination,
Physical
and a nature
Geography
which is

linked with
geographical
attributes.

Transport
systems
composed of in
frastructures,

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

modes and
terminals are
so embedded in
the socio-
economic life
of
individuals,
institutions
and
corporations
that they are
often

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Hydrology

invisible to
the consumer.
This is
paradoxical as
the perceived
invisibility
of
transportation
is derived
from its
efficiency.
Understanding

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

how mobility
is linked with
geography is
main the
purpose of
this book. The
third edition
of The
Geography of
Transport
Systems has
been revised

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Hydrology
and updated to
Routledge
provide an
Fundamentals Of
overview of
Physical
the spatial
Geography
aspects of tra
nsportation.

This text
provides
greater
discussion of
security,
energy, green

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Hydrology

logistics, as

well as new

and updated

case studies,

a revised

content

structure, and

new figures.

Each chapter

covers a

specific

conceptual

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Hydrology
dimension
Routledge
including
Fundamentals Of
networks,
Physical
modes,
Geography
terminals,
freight transp
ortation,
urban
transportation
and
environmental
impacts. A

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Hydrology

final chapter

contains core

methodologies

linked with

transport

geography such

as

accessibility,

spatial

interactions,

graph theory

and Geographic

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Hydrology
Information
Routledge
Systems for
Fundamentals Of
transportation
Physical
(GIS-T). This
Geography
book provides
a
comprehensive
and accessible
introduction
to the field,
with a broad
overview of

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Hydrology
its concepts,
Routledge
methods, and
Fundamentals Of
areas of
Physical
application.

The

accompanying
website for
this text
contains a
useful
additional
material,

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Hydrology
including
Routledge
digital maps,
Fundamentals Of
PowerPoint
Physical
slides,
Geography
databases, and
links to
further
reading and
websites. The
website can be
accessed at: <http://people.h>

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Hydrology
ofstra.edu/geo
Routledge
trans This
Fundamentals Of
text is an
Physical
essential
Geography
resource for
undergraduates
studying
transport
geography, as
well as those
interest in
economic and

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Hydrology
urban
Routledge
geography,
Fundamentals Of
transport
Physical
planning and
Geography
engineering.

This book
provides an
introduction
to the
scientific
fundamentals
of groundwater

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Hydrology
and geothermal
Routledge
systems. In a
Fundamentals Of
simple and
Physical
didactic
Geography
manner the
different
water and
energy
problems
existing in
deformable
porous rocks

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Hydrology
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Fundamentals Of
Physical
Geography
are explained
as well as the
corresponding
theories and
the
mathematical
and numerical
tools that
lead to
modeling and
solving them.
This approach

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Hydrology

provides the
Routledge
Fundamentals Of
Physical
Geography
reader with a
thorough
understanding
of the basic
physical laws
of thermoporoe
lastic rocks,
the partial
differential
equations
representing

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Hydrology
these laws and
Routledge
the principal
Fundamentals Of
numerical
Physical
methods, which
Geography
allow finding
approximate
solutions of
the
corresponding
mathematical
models. The
book also

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Hydrology

presents the
form in which
specific
useful models
can be
generated and
solved. The
text is
introductory
in the sense
that it
explains basic

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

themes of the
systems
mentioned in
three areas:
engineering,
physics and
mathematics.
All the laws
and equations
introduced in
this book are
formulated

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Hydrology
carefully
Routledge
based on
Fundamentals Of
Physical
Geography
principles.

This way, the
reader will
understand the
key importance
of mathematics
applied to all
the subjects.

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Simple models
are emphasized
and solved
with numerous
examples. For
more

sophisticated
and advanced
models the
numerical
techniques are
described and

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Hydrology
developed
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carefully.
Fundamentals Of
This book will
Physical
serve as a
Geography
synoptic
compendium of
the
fundamentals
of fluid,
solute and
heat
transport,

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Fundamentals Of
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Geography
applicable to
all types of
subsurface
systems,
ranging from
shallow
aquifers down
to deep
geothermal
reservoirs.
The book will
prove to be a

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Hydrology

useful

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textbook to

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senior

Physical
undergraduate

Geography
and graduate

students,

postgraduates,

professional

geologists and

geophysicists,

engineers,

mathematicians

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and others
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working in the
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vital areas of
Physical
groundwater
Geography
and geothermal
resources.

Water is
essential to
sustain life
on Earth and
an
understanding

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Hydrology
of water
Routledge
quantity and
Fundamentals Of
quality issues
Physical
is vital for
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anyone
involved in
environmental
management .
Fundamentals
of Hydrologypr
ovides an
absorbing and

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Hydrology
comprehensive
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introduction
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to how fresh
Physical
water moves on
Geography
and around the
planet and how
humans affect
the quantity
and quality of
water
available to
them. The book

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Hydrology

consists of
three parts,
each of
fundamental
importance to
an
understanding
of hydrology:
*The first
section deals
with processes
within the

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

hydrological
cycle, our
understanding
of them, and
how to measure
and estimate
the amount of
water within
each process.
*The second
section is
concerned with

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Hydrology
the assessment
Routledge
of important
Fundamentals Of
hydrological
Physical
parameters
Geography
such as
streamflow and
water quality.
It describes
techniques
used by
practising
hydrologists

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Hydrology
in the
Routledge
assessment of
Fundamentals Of
water
Physical
resources.

*The final
section of the
book draws
together the
first two
parts to
discuss how we
can manage our

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Hydrology
water

Routledge
resources for
Fundamentals Of
the maximum
Physical
benefit of
Geography
humanity and
the
environment
overall.

Fundamentals
of Hydrology is
a lively and
accessible

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Hydrology
introduction
Routledge
to the study
Fundamentals Of
of hydrology
Physical
and will give
Geography
undergraduates
an
understanding
of
hydrological
processes, a
knowledge of
the techniques

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Hydrology
used to assess
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water
Fundamentals Of
resources and
Physical
an up to date
Geography
overview of
hydrology in a
changing
world.
Throughout the
text examples
and case
studies from

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around the
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world are used
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to clearly
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explain ideas
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and
techniques.
Chapter
summaries,
essay
questions,
guides to
further

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Physical
Global
Geography
Hydrology
illustrates in
detail the
growing
importance of
understanding
hydrological
processes and

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Geography
pathways as a
means of
effective and
safe
management of
water
resources. It
describes
current
management
practices and
past

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environmental
Routledge
impact. It
Fundamentals Of
analyses the
Physical
options for
Geography
improving
water supply
and protecting
the
environment,
emphasizing
the need for
international

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Hydrology
collaboration
Routledge
in a changing
Fundamentals Of
societal and
Physical
environmental
Geography
context

Handbook of
Engineering
Hydrology
(Three-Volume
Set)
Physical
Geography: The

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Fundamentals Of
Hydrology
Routledge
Key Concepts
Principles of
Fundamentals Of
Environmental
Physical
Geography
An Integrated

Approach

Fundamentals

of

Biogeography

In order to manage
the world's

increasingly scarce

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Hydrology

water resources
we must have a
sound
understanding of
how water moves
around the planet
and what
influences water
quality.

Fundamentals of
Hydrology
provides an

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engaging and
comprehensive
introduction to this
subject and
provides real-life
examples of water
resource

management in a
changing world.

The second edition
of this popular
book brings the

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

text up-to-date
with additional
case studies and
diagrams and a
greater synthesis
of water quality
with physical
hydrology. The
chapters on runoff
and evaporation
have been
updated and the

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Hydrology

final chapter on
hydrology in a
changing world
has more material
on water resource
management
strategies.

Additionally the
chapter on
streamflow
analysis now
includes a more in-

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depth section on
Routledge
Fundamentals Of
Physical
Geography
modelling runoff.
The book begins
with a
comprehensive
coverage of
precipitation,
evaporation, water
stored in the
ground and as
snow and ice, and
runoff. These

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Hydrology
physical
Routledge
hydrological
Fundamentals Of
processes show
Physical
with respect to the
Geography
fundamental
knowledge about
the process, its
measurement and
estimation and
how it ties in with
water quality.

Following this is a

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

section on
analyzing
streamflow data,
including using
computer models
and combining
hydrology and
ecology for in-
stream flow
assessment. A
chapter on water
quality shows how

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Hydrology

to measure and
estimate it in a
variable
environment and
finishes with a
section on
pollution
treatment. The
final chapter brings
the text together to
discuss water
resource

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Hydrology
management
Routledge
andreal-life issues
Fundamentals Of
that are faced by
Physical
hydrologists in a
Geography
constantly
changing world.
Fundamentals of
Hydrology is a
lively and
accessible
introduction to the
study of hydrology

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Hydrology
at university level.

This new edition
continues to
provide an
understanding of
hydrological
processes,
knowledge of the
techniques used to
assess water
resources and an
up-to-date

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

overview of water
resource
management in a
changing world.

Throughout the
text, wide-ranging
examples and
case studies are
used to clearly
explain ideas and
methods. Short
chapter

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summaries, essay questions, guides to further reading and a glossary are also included.

Rivers are significant geomorphological agents, they show an amazing diversity of form and behaviour and

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

transfer water and
sediment from the
land surface to the
oceans. This book
examines how
river systems
respond to
environmental
change and why
this understanding
is needed for
successful river

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Hydrology
management.

Highly dynamic in
nature, river
channels adjust
and evolve over
timescales that
range from hours
to tens of
thousands of years
or more, and are
found in a wide
range of

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

environments. This book provides a comprehensive overview of recent developments in river channel management, clearly illustrating why an understanding of fluvial geomorphology is

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Hydrology

vital in channel
preservation,
environmentally
sensitive design
and the restoration
of degraded river
channels. It
covers: flow and
sediment regimes:
flow generation;
flow regimes;
sediment sources,

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Routledge
Fundamentals Of
Physical
Geography

transfer and yield
channel
processes: flow
characteristics;
processes of
erosion and
sediment
transport;
interactions
between flow and
the channel
boundary;

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Hydrology

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Fundamentals Of

Physical

Geography

deposition channel

form and

behaviour: controls

on channel form;

channel

adjustments;

floodplain

development; form

and behaviour of

alluvial and

bedrock channels

response to

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change: how
channels have
responded to past
environmental
change; impacts of
human activity;
reconstructing past
changes river
management: the
fluvial
hydrosystem;
environmental

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degradation;
environmentally
sensitive
engineering

techniques; river
restoration; the
role of the fluvial
geomorphologist.

Fundamentals of
Fluvial

Geomorphology is
an indispensable

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text for
undergraduate
students. It
provides
straightforward
explanations for
important concepts
and mathematical
formulae, backed
up with conceptual
diagrams and
appropriate

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

examples from
around the world
to show what they
actually mean and
why they are

important. A colour
plate section also
shows spectacular
examples of fluvial
diversity.

Fundamentals of
the Physical

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Environment has established itself as a well-respected core introductory book for students of physical geography and the environmental sciences. Taking a systems approach, it demonstrates

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how the various factors operating at Earth's surface can and do interact, and how landscape can be used to decipher them. The nature of the earth, its atmosphere and its oceans, the main processes of

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Hydrology
geomorphology
Routledge
and key elements
Fundamentals Of
of ecosystems are
Physical
also all explained.
Geography

The final section
on specific
environments
usefully sets in
context the
physical processes
and human
impacts. This

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Hydrology

fourth edition has
Routledge
Fundamentals Of
Physical
Geography
been extensively
revised to
incorporate current
thinking and
knowledge and
includes: a new
section on the
history and study
of physical
geography an
updated and

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strengthened
chapter on climate
change (9) and a
strengthened
section on the
work of the wind a
revised chapter
(15) on
cryosphere
systems - glaciers,
ice and permafrost
a new chapter (23)

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Fundamentals Of
Physical
Geography
on the principles of
environmental
reconstruction a
new joint chapter
(24) on polar and
alpine
environments a
key new joint
chapter (28) on
current
environmental
change and future

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Routledge
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Physical
Geography
environments new
material on the
Earth System and
cycling of carbon
and nutrients
themed boxes
highlighting
processes,
systems,
applications, new
developments and
human impacts a

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Geography
discussion and
essay questions,
chapter summaries
and extended case
studies. Clearly
written, well-
structured and with
over 450

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Hydrology
informative colour
Routledge
diagrams and 150
Fundamentals Of
colour
Physical
photographs, this
Geography
text provides
students with the
necessary
grounding in
fundamental
processes whilst
linking these to
their impact on

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

human society and
their application to
the science of the
environment.

The world faces
huge challenges
for water as
population
continues to grow,
as emerging
economies
develop and as

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Hydrology
Routledge
Fundamentals Of
Physical
Geography

climate change
alters the global
and local water
cycle. There are
major questions to

be answered
about how we
supply water in a
sustainable and
safe manner to
fulfil our needs,
while at the same

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Hydrology

time protecting
vulnerable
ecosystems from
disaster. Water
Resources: An
Integrated
Approach provides
students with a
comprehensive
overview of both
natural and socio-
economic

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Hydrology
processes
Routledge
associated with
Fundamentals Of
water. The book
Physical
contains chapters
Geography
written by 20
specialist
contributors,
providing expert
depth of coverage
to topics. The text
guides the reader
through the topic

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Hydrology
Routledge
Fundamentals Of
Physical
Geography
of water starting
with its unique
properties and
moving through
environmental
processes and
human impacts
upon them
including the
changing water
cycle, water
movement in river

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Hydrology
basins, water
Routledge
quality,
Fundamentals Of
groundwater and
Physical
aquatic
Geography

ecosystems. The
book then covers
management
strategies for water
resources, water
treatment and re-
use, and the role
of water in human

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Hydrology

health before
covering water
economics and
water conflict. The
text concludes with
a chapter that
examines new
concepts such as
virtual water that
help us
understand current
and future water

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Hydrology
resource use and
Routledge
availability across
Fundamentals Of
interconnected
Physical
local and global
Geography
scales. This book
provides a novel
interdisciplinary
approach to water
in a changing
world, from an
environmental
change

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Hydrology

perspective and
inter-related social,
political and
economic
dimensions. It

includes global
examples from
both the

developing and
developed world.

Each chapter is
supplemented with

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boxed case studies, end of chapter questions, and further reading, as well as a glossary of terms. The text is richly illustrated throughout with over 150 full colour diagrams and photos.

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Hydrology

Physical
Routledge
Geography: The
Fundamentals Of
Basics is a concise
Physical
and engaging
Geography
introduction to the
interactions,
systems and
processes that
have shaped, and
continue to shape,
the physical world
around us. This

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Fundamentals Of
Hydrology

book introduces
five key aspects of
the study of
physical
geography:

atmosphere,
weather and
climate systems
the carbon cycle
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and natural
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managers need
is to
understand what
economic

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*information is
and how to use
it to make
better business
and management
decisions. John
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on his twenty
years of
experience
teaching and
working in the
field of forest*

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problems faced
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other natural
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*managers. There
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organization.

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organized*

around two

*common economic
models used in*

forest and

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natural
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making. The

second is the
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disciplines:
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these case

studies is to

provide

students with

applications of

the concepts

being discussed

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*within the
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is revisiting
the question of
how to use
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decisions at
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ties each*

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chapter to the preceding ones and reinforces the hypothesis that a solid working knowledge of these economic models and the information they contain are necessary for making

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*better business
decisions. This
textbook is an
invaluable
source of clear
and accessible
information on
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economics and
management for
not only
economics
students, but*

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other
disciplines and
those already
working in
forestry and
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this form in
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provided a
synthesis of
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and socio-
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volume brings
together the
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*theme of
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*considered in
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introduction to
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understanding
of how fresh
water moves on
and around the
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humans affect

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and manage the
freshwater
resources
available to
them. The book
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three parts,
each of
fundamental
importance in
the
understanding
of hydrology:

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provides a
practical
introduction to
the principles,

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techniques and
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as well as
demonstrates
the typical
environmental
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contextualise
these subjects
in the real
world, examples
and detailed
tutorials are
provided in
each chapter to
show how the
GIS techniques
and tools

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introduced in
the chapter can
be implemented
using ESRI
ArcGIS (a
popular GIS
software system
for
environmental
applications)
and other third
party
extensions to

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ArcGIS to
address. The
emphasis is
placed on how
to apply or
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concepts and
techniques of
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illustrative
examples with
step-by-step
instructions

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tables
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how to apply or
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concepts and
techniques of
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chapter GIS
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all examples as
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summarizes
tracing
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chapters have
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figures. A cd

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evaluation and
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data from
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development needs to be
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economic, ecological or
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new and expanded
edition builds upon the
first edition's accessible
and comprehensive
overview of the
challenges linked to*

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striving for a sustainable, holistic approach to development. Providing a multifaceted approach to the subject in order to encompass what is referred to as 'people, planet and profit', this second edition provides a complete update of the text, with increased coverage of new and major topics including

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*the Sustainable
Development Goals and
the circular economy.*
An interactive and
complete educational
tool, the book comes
with a website
containing exercises,
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summaries for each
chapter as well as over
forty video clips. It also
offers a 'lecturer
section' which includes

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accompany every
chapter, and answers
and explanations to the
exercises. This
stimulating book is an
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students and lecturers in
all disciplines who have
an interest in the
sustainability of our
planet, and our human
society and economy.*

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fundamentals of hydrology and hydrogeology, taking an environmental slant dictated by the emphasis in recent times for the remediation of contaminated aquifers and surface-water bodies as well as a demand for new designs that impose the least negative impact on the natural environment.

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*applications to civil
engineering design.*

*Positioned to become
the foremost text on
water resource issues,
this companion to
Hornberger's widely
regarded Elements of
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reveals the enormity of
the water crisis facing
the planet while offering
realistic hope.*

This thesis describes the

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Physiology
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*occurrence of microbial
and chemical
contaminants in
swimming pools and the
investigation of an
alternative disinfection
technology, UVOX
Redox® that could
reduce reliance on
chlorine and the
formation of chlorinated
disinfection byproducts
(DBPs) in swimming
pools. This technology*

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*was effective in
inactivation of chlorine
resistant
microorganisms,
represented by Bacillus
subtilis spores, and in
combination with
chlorine generated
lower concentrations of
chlorinated DBPs
compared to
chlorination alone. It
enhanced the removal of
pharmaceuticals and*

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personal care products (PPCPs), which were frequently present in indoor, outdoor and spa pools. Carbamazepine and 1H-benzotriazole were the most frequently detected PPCPs, while hydrochlorothiazide and 4-methylbenzylidene camphor were detected at the highest concentration. An investigation of seven

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different swimming pool facilities showed that clinically relevant fungi were omnipresent.

Floors at the sites where the pool visitors converge, such as the exit leading to shower rooms, showed the highest fungal concentrations. The distribution of fungi inside the swimming pool facilities

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*highlighted potential
transmission pathways
and a possible risk of
fungal infections. Future
swimming pool water
guidance should include
raising awareness
among swimmers, pool
operators and managers
about hygienic
behaviour and better
hygiene measures, and
application of
alternative disinfection*

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technologies such as

UVOX. Key features:

Identifies clinically

relevant fungi in

swimming pool

environments Identifies

potential transmission

pathways of clinically

relevant fungi in indoor

swimming pools

Highlights the

occurrence of PPCPs in

different type of pools

and their relation with

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*pool water treatment
Assesses an alternative
disinfection technology
for swimming pool
water treatment.*

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Hydrology
Researching with
impact*

Fundamentals of

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***Biogeography
presents an
accessible,
engaging and
comprehensive
introduction to
biogeography,
explaining the
ecology,
geography,
history and
conservation of
animals and***

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plants. Starting with an outline of how species arise, disperse, diversify

and become

extinct, the book

examines: how

environmental

factors (climate,

substrate,

topography, and

disturbance)

influence animals

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***and plants;
investigates how
populations grow,
interact and
survive; how
communities
form and change;
and explores the
connections
between
biogeography and
conservation. The
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expanded
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themes from the
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more depth.
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throughout with
informative***

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attractive photos
and including
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reading, chapter
summaries and
an extensive
glossary of key
terms,
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clearly explains
key concepts in***

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***the history,
geography and
ecology of life
systems. In doing
so, it tackles
some of the most
topical and
controversial
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and ethical
concerns
including species
over-exploitation,***

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habitat
fragmentation,
biodiversity loss
and ecosystem
restoration.***

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carefully written,
and covering a
broad spectrum
of topics, this***

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***classic text
clarifies a subject
that is often
misunderstood
and
oversimplified.***

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advances of
recent years
include the
emergence of new
remote sensing
and geographic***

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systems that are
invaluable for the
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and land use
change. Students,
hydrologists, and
environmental
engineers are
searching for a
comprehensive
hydrogeologic**

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***overview that
supplements
information on
hydrologic
processes with
data on these new
information
technology tools.
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builds upon the
foundation of the***

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***bestselling first
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providing a
qualitative
understanding of
hydrologic
processes while
introducing new
methods for
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hydrologic
parameters and
processes.***

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experience, the
text first
discusses the
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the hydrologic
cycle, then
follows with
chapters on
precipitation,**

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applications, and

numerous other

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thorough text

with the newest

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and measurement

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authors provide

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for students and

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science,

hydrology, soil

science, geology,

ecological

engineering, and

countless other

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**environmental
fields.**

**Biochar is the
carbon-rich
product when
biomass (such as
wood, manure or
crop residues) is
heated in a closed
container with
little or no
available air. It
can be used to**

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improve

**agriculture and
the environment**

in several ways,

and its stability

in soil and

**superior nutrient-
retention**

properties make

it an ideal soil

amendment to

increase crop

yields. In addition

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***to this, biochar
sequestration, in
combination with
sustainable
biomass
production, can
be carbon-
negative and
therefore used to
actively remove
carbon dioxide
from the
atmosphere, with***

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production can
also be combined
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process. This book is the first to synthesize the expanding research literature on this topic. The book's interdisciplinary approach, which covers engineering, environmental sciences,

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***agricultural
sciences,
economics and
policy, is a vital
tool at this stage
of biochar
technology
development.***

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comprehensive
overview of
current
knowledge will be***

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Soil processes ·

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formation · Soil

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patterns · Soil

degradation.

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Hydrology

Applied

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Completely updated
and with three new
chapters, this analysis
of river dynamics is
invaluable for
advanced students,
researchers and
practitioners.

Hydrology in Practice
is an excellent and
very successful
introductory text for
engineering hydrology

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students who go on to be practitioners in consultancies, the Environment Agency, and elsewhere. This fourth edition of Hydrology in Practice, while retaining all that is excellent about its predecessor, by Elizabeth M. Shaw, replaces the material on the Flood Studies

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Report with an equivalent section on the methods of the Flood Estimation Handbook and its revisions. Other completely revised sections on instrumentation and modelling reflect the many changes that have occurred over recent years. The

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updated text has taken advantage of the extensive practical experience of the staff of JBA Consulting who use the methods described on a day-to-day basis. Topical case studies further enhance the text and the way in which students at undergraduate and

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MSc level can relate to it. The fourth edition will also have a wider appeal outside the UK by including new material on hydrological processes, which also relate to courses in geography and environmental science departments. In this respect the book

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draws on the expertise of Keith J. Beven and Nick A. Chappell, who have extensive experience of field hydrological studies in a variety of different environments, and have taught undergraduate hydrology courses for many years. Second- and final-year

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undergraduate (and
MSc) students of
hydrology in
engineering,
environmental
science, and
geography
departments across the
globe, as well as
professionals in
environmental
protection agencies
and consultancies, will

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find this book
invaluable. It is likely
to be the course text
for every
undergraduate/MSc
hydrology course in
the UK and in many
cases overseas too.

All geologists need a
broad understanding
of science to
understand the
processes they study

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and analytical
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techniques. In
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particular, geology
Physical
students need to grasp
Geography
the basic physics
behind these
processes, which this
book provides in plain
language and simple
mathematics. It gives
the reader information
that will enable him to
ascertain the validity

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of what he reads in
scientific literature.

Water, an essential
component of
geology, is
emphasized, and many
published errors on
water are discernible
when armed with this
text. This updated
edition discusses a
wide range of topics,
including

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electromagnetic
radiation from optics
to gamma rays, atomic
structure and age-
dating, heat and heat
flow, electricity and
magnetism, stress and
strain, sea waves,
acoustics, and fluids
and fluid flow. The
book gives basic
definitions and
dimensions and also

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some warnings about
misunderstanding
mathematical
statistics, particularly
of linear regression
analysis, and
unenlightened
computation.

Comprehensive text
on the fundamentals
of modeling flow and
sediment transport in
rivers treating both

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physical principles
and numerical
methods for various
degrees of complexity.

Includes 1-D, 2-D
(both depth- and width-
averaged) and 3-D
models, as well as the
integration and
coupling of these
models. Contains a
broad selection

Sustainable

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groundwater
development requires
knowledge of the
appropriate recharge
and transport-
processes. This is a
prerequisite to
understanding: (i)
groundwater resources
and their availability,
and (ii) the
dependence between
groundwater and the

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environment.

Conceptual
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Physical
Geography
understanding of
groundwater flow at
both temporal and
spatial scales (local
and regional) is
essential for
management that will
support engineering,
industry, agriculture,
ecology, and all
environmentally

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related issues. This book has been prepared for scientists, researchers, students, engineers, water resources specialists, groundwater consultants, government administrators and teachers. It is of direct and applied interest to practitioners in

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hydrogeology and
groundwater
(resources, quality,
pollution, protection
and clean-up),

geochemistry and
hydrogeochemical
modelling, and

investigators into
environmental
hydrology,

groundwater
dependent

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textbook.
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Watershed Hydrology
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The Basics
Hydrology and Global
Environmental
Change