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Energy Dunlap
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Energy Dunlap

This book explores how, in the wake of the Anthropocene, the growing call for urgent decarbonisation and accelerated

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energy transitions
might have
unintended
consequences for
energy poverty,
justice and
democracy,
especially in the
global South.

Dilemmas of
Energy Transitions
in the Global

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South brings
together
theoretical and
empirical
contributions
focused on
rethinking energy
transitions
conceptually from
and for the global
South, and
highlights issues of

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justice and inclusivity. It argues that while urgency is critical for energy transitions in a climate-changed world, we must be wary of conflating goals and processes, and enquire what

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urgency means for
due process.

Drawing from a
range of authors
with expertise
spanning
environmental
justice, design
theory, ethics of
technology,
conflict and
gender, it

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examines case studies from countries including Bolivia, Sri Lanka, India, The Gambia and Lebanon in order to expand our understanding of what energy transitions are, and how just energy transitions

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can be done in different parts of the world. Overall, driven by a postcolonial and decolonial sensibility, this book brings to the fore new concepts and ideas to help balance the demands of justice

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and urgency, to flag relevant but often overlooked issues, and to provide new pathways forward. This volume will be of great interest to students and scholars of energy transitions, environmental

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justice, climate
change and
developing
countries. The
Open Access
version of this
book, available at
<https://www.taylorfrancis.com/books/oa-edit/10.4324/9781003052821> has
been made

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license.

The relentless
pursuit of
economic growth
is the defining
characteristic of

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contemporary societies. Yet it benefits few and demands monstrous social and ecological sacrifice. Is there a viable alternative? How can we halt the endless quest to grow global production and

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consumption and
instead secure
socio-ecological
conditions that
support lives worth
living for all? In this
compelling book,
leading experts
Giorgos Kallis,
Susan Paulson,
Giacomo D'Alisa
and Federico

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Demaria make the case for degrowth - living well with less, by living differently, prioritizing wellbeing, equity and sustainability.

Drawing on emerging initiatives and enduring traditions

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around the world, they advance a radical degrowth vision and outline policies to shape work and care, income and investment that avoid exploitative and unsustainable practices.

Degrowth, they

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argue, can be achieved through transformative strategies that allow societies to slow down by design, not disaster. Essential reading for all concerned citizens, policy-makers, and

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students, this book will be an important contribution to one of the thorniest and most pressing debates of our era. This book presents a unique analysis of the sustainability performance of

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various renewable energy sources, based on Brazilian case studies. The evaluation also covers the potential held by regions with diverse socioeconomic and environmental characteristics and

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how they affect the development of each source.

Considering that energy is essential to sustaining and improving modern society, the answer to the current energy dilemma lies in the development of a

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system that
comprises multiple
renewable,
reliable, and
sustainable energy
sources. Brazil,
which has a
predominantly
renewable
electricity grid, has
the privilege of
being home to a

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range of different sustainable sources, although most of its electricity comes from hydroelectric power plants. With that in mind, this book has the primary objective of developing a performance

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evaluation system for important renewable sources in Brazil (solar, wind, and hydro), taking into account different scenarios and investor profiles. The analysis is based on the study of sustainability

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indicators related to the technical, economic, social and environmental aspects of the evaluated energy systems. As the availability of renewable sources is very location-specific, the scope of this book covers

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two Brazilian States with distinct characteristics. It makes it possible to determine which renewable energy source is most adequate from a sustainability perspective, and in light of the analyzed scope

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and investor
profile.

Featuring the
latest industry
standards and
procedures,
longtime market
leader

ELECTRICAL
WIRING

RESIDENTIAL,

Twentieth Edition,

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provides
comprehensive,
authoritative
coverage of the
2020 National
Electrical Code
(NEC), as well as
a thorough
grounding in
essential electrical
theory and
applications.

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Drawing on decades of industry and classroom experience, the authors guide students step-by-step through the critical tasks and responsibilities required of today's professional

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electricians in both new construction and existing homes. Extremely reader-friendly, the text offers detailed explanations without being overly technical, and content clearly relates the NEC to real-world

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installation
processes. Vivid
Illustrations
coordinate with the
latest NEC
regulations to
provide further
clarity, and foldout
plans at the back
of the text give
students hands-on
practice applying

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requirements.

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To Leave a
Memory

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Renewable
Energy: Combined
Edition
Operation and
Control of
Renewable Energy
Systems
How I Save Bad
Companies and
Make Good
Companies Great
Renewing

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Destruction

Readers explore present and future energy needs as well as options for continued use of fossil fuels and alternative energy sources with Dunlap's SUSTAINABLE ENERGY, 2nd

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Individual
chapters
thoroughly
investigate
each energy
approach as the
book covers
both current
energy
production and
future
strategies. The

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author assumes
reader
familiarity
with the basic
concepts of
freshman-level
physics and
chemistry. The
text emphasizes
the complexity
of energy
issues and the
need for a mult

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interdisciplinary
approach to
solving energy
problems.

Quantitative
end-of-chapter
problems
emphasize
analyzing
information,
correlating
data from
various

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sources, and
interpreting
graphical data
and interpolate
values. Readers
see real
problems in
producing and
using energy as
they realize
that while
exact
calculations

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are important,
a broad-based
analysis is
often most
appropriate.

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version.

This book is
about
environmental
defenders and
the violence
they face while
seeking to
protect their
land and the

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Between 2002
and 2019, at
least two
thousand people
were killed in
57 countries
for defending
their lands and
the
environment.
Recent policy
initiatives and

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media coverage
have provided
much needed
attention to
the protection
and support of
defenders, but
there has so
far been little
scholarly work.
This edited
volume explains
who these

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defenders are,
what threats
they face, and
what can be
done to help
support and
protect them.
Delving deep
into the
complex
relations
between and
within

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communities,
corporations,
and government
authorities,
the book
highlights the
diversity of
defenders, the
collective
character of
their
struggles, the
many drivers

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and forms of violence they are facing, as well as the importance of emotions and gendered dimensions in protests and repression. Drawing on global case studies, it

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examines the violence taking place around different types of development projects, including fossil fuels, a gro-industrial, renewable energy, and infrastructure. The volume also

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examines the violence surrounding conservation projects, including through militarized wildlife protection and surveillance technologies. The book

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concludes with a reflection on the perspectives of defenders about the best ways to support and protect them. It contrasts these with the lagging efforts of an international

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community often promoting economic growth over the lives of defenders. This volume is essential reading for all interested in understanding the challenges faced by environmental

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defenders and
how to help and
support them.
It will also
appeal to
students,
scholars and
practitioners
involved in
environmental
protection,
environmental
activism, human

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rights, social movements and development studies.

Evaluates trade-offs and uncertainties inherent in achieving sustainable energy, analyzes the major energy

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technologies,
and provides a
framework for
assessing
policy options.
An account of
German environm
entalism that
shows the
influence of
the past on
today's
environmental

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decisions.

Climate Change
and Society

Mean Business
Sustainable

Energy +
Mindtap

Engineering, 1

Term 6 Months

Access Card

The Violent

Technologies of

Extraction

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Power Struggles

A solid, quantitative, practical introduction to a wide range of renewable energy systems—in a completely updated, new edition The second edition of Renewable and Efficient Electric Power Systems provides a solid, quantitative,

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practical

introduction to a wide range of renewable energy systems. For each topic, essential theoretical background is introduced, practical engineering considerations associated with designing systems and predicting their performance are

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provided, and methods forevaluating the economics of these systems are presented. While thebook focuses on the fastest growing, most promising wind and solartechnologies, new material on tidal and wave power, sma ll-scalehydroelectric

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power, geothermal and biomass systems is introduced. Both supply-side and demand-side technologies are blended in the final chapter, which introduces the emerging smart grid. As the fraction of our power generated by renewable resources increases, the role of

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demand-side management in helping maintain grid balance is explored. Renewable energy systems have become mainstream technologies and are now, literally, big business. Throughout this edition, more depth has been provided on the financial analysis of la

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rge-

scale conventional
and renewable
energy projects.

While grid-
connected systems
dominate the market
today, off-grid
systems are
beginning to have a
significant impact on
emerging economies
where electricity is a
scarce commodity.

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Considerable attention is paid to the economics of all of these systems. This edition has been completely rewritten, updated, and reorganized. New material has been presented both in the form of new topics as well as in greater depth in some areas. The section on the

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fundamentals of electric power has been enhanced, making this edition a much better bridge to the more advanced courses in power that are returning to many electrical engineering programs. This includes an introduction to phasor notation,

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more emphasis
on reactive power as
well as real power,
more on power
converter
and inverter
electronics, and more
material on
generator technologi
es. Realizing that
many students, as
well as professionals,
in this increasingly
important field may

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have modest electrical engineering backgrounds, early chapters develop the skills and knowledge necessary to understand these important topics without the need for supplementary materials. With numerous completely worked examples

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throughout, the book has been designed to encourage self-instruction. The book includes worked examples for virtually every topic that lends itself to quantitative analysis. Each chapter ends with a problem set that provides additional practice. This is an essential

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resource for a mixed audience of engineering and other technology-focused individuals.

This volume considers various methods of energy storage that make use of electrochemical reactions, electric and magnetic fields, and chemical reactions.

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This book begins with a consideration of the use of batteries as a means of storing electrical energy. Various common battery chemistries are presented along with a summary of common battery sizes. The electrochemistry of a lithium-ion (Li-ion) cell is discussed in

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detail. Sodium-based batteries are discussed, as are vanadium flow batteries. The applications of batteries for energy storage are overviewed, concentrating on transportation technologies and grid-scale storage.

Methods for storing

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energy in the form of electric fields include the use of supercapacitors and superconducting coils. The design of capacitors, including supercapacitors, pseudocapacitors, and hybrid capacitors is presented. The applications of supercapacitors for high-power, short-

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term energy storage are discussed. The use of superconducting magnets to store large amounts of electrical energy without resistive loss is presented. The application of superconducting electrical storage for grid stability is considered. Final

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chemical energy storage techniques are considered. The use of hydrogen as an energy carrier is discussed in detail. The concept of a future hydrogen economy has been popular in recent years. This volume considers the efficiency of such an approach. Other

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chemical energy carriers, such as methane, methanol, and ammonia, are discussed.

A comprehensive reference to renewable energy technologies with a focus on power generation and integration into power systems This book addresses the

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generation of energy (primarily electrical) through various renewable sources. It discusses solar and wind power—two major resources that are now in use in small as well as large-scale power production—and their requirements for effectively using advanced control

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techniques. In addition, the book looks at the integration of renewable energy in the power grid and its ability to work in a micro grid. Operation and Control of Renewable Energy Systems describes the numerous types of renewable energy sources available and

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the basic principles involving energy conversion, including the theory of fluid mechanics and the laws of thermodynamics. Chapter coverage includes the theory of power electronics and various electric power generators, grid scale energy storage systems,

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photovoltaic power generation, solar thermal energy conversion technology, horizontal and vertical wind turbines for power generation, and more. Covers integration into power systems with an emphasis on microgrids
Introduces a wide

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range of subjects related to renewable energy systems, including energy storage, microgrids, and battery technologies Includes tutorial materials such as up-to-date references for wind energy, grid connection, and power electronics—plus

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worked examples
and solutions

Operation and
Control of Renewable
Energy Systems is the
perfect introduction
to renewable energy
technologies for
undergraduate and
graduate students
and can also be very
useful to practicing
engineers.

ENGINEERING

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APPLICATIONS IN
SUSTAINABLE
DESIGN AND
DEVELOPMENT is an
invaluable resource
for today's
engineering student.
Focusing on pressing
contemporary issues,
the text puts product
design in the context
of models of
sustainability.

Relevant case studies

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from across the globe will be of interest to engineers in training, and active learning exercises in each chapter help students learn to apply theory to real world situations. Important Notice: Media content referenced within the product description or the product text may not

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be available in the
ebook version.

Balancing Urgency
and Justice

Modern Methods

Sociological

Perspectives

Sustainable Energy +
Mindtap Engineering,

2 Terms 12 Months

Access Card

Energy and the
Environment, 3rd
Edition examines

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several critical topics of global importance associated with our increasing use of resource consumption and its impact on our environment. Author, Jeffrey Brack, provides updated information on pivotal issues that surround the study of energy through the exploration of basic

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concepts, resource applications and problems of current interest.

This book provides a critical approach to research on the social acceptance of renewable energy infrastructures and on energy transitions in general by questioning prevalent principles and

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proposing specific research pathways and lines of inquiry that look beyond depoliticised, business-as-usual discourses and research agendas on green growth and sustainability. It brings together authors from different socio-geographical and disciplinary

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backgrounds within the social sciences to reflect upon, discuss and advance what we propose to be five cornerstones of a critical approach: overcoming individualism and socio-cognitivism; repoliticisations – recognising and articulating power relations; for

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interdisciplinarity;
interventions – praxis
and political
engagement with
research; and
overcoming localism
and spatial
determinism: As such,
this book offers
academics, students
and practitioners alike
a comprehensive
perspective of what it
means to be critical

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when inquiring into the social acceptance of renewable energy and associated infrastructures.

A controversial business executive shares his personal history, his ideas on management and leadership, and his program for selecting a management team and making a

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business profitable.

Reprint. 75,000 first printing.

Humans have always used denial. When we are afraid, guilty, confused, or when something interferes with our self-image, we tend to deny it. Yet denial is a delusion. When it impacts on the health of oneself, or society, or the

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world it becomes a pathology. Climate change denial is such a case. Paradoxically, as the climate science has become more certain, denial about the issue has increased. The paradox lies in the denial. There is a denial industry funded by the fossil fuel companies that

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literally denies the science, and seeks to confuse the public.

There is denial within governments, where spin-doctors use 'weasel words' to pretend they are taking action.

However there is also denial within most of us, the citizenry. We let denial prosper and we resist the science.

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It also explains the social science behind denial. It contains a detailed examination of the principal climate change denial arguments, from attacks on the integrity of scientists, to impossible expectations of proof and certainty to the cherry picking of data. Climate change can

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be solved - but only when we cease to deny that it exists. This book shows how we can break through denial, accept reality, and thus solve the climate crisis. It will engage scientists, university students, climate change activists as well as the general public seeking to roll back

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denial and act.

A New History of
German
Environmentalism
Deadly Struggles for
Life and Territory
Dilemmas of Energy
Transitions in the
Global South
Six Tools for Social
Change Writing
Choosing Among
Options
Sustainable Energy, SI

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Edition Cengage

Learning

Examines how wind energy projects impact people and their environments.

In this invaluable book, the basic mathematical properties of the golden ratio and its occurrence in the dimensions of two-

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and three-dimensional figures with fivefold symmetry are discussed. In addition, the generation of the Fibonacci series and generalized Fibonacci series and their relationship to the golden ratio are presented. These concepts are applied to algorithms for

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searching and function minimization. The Fibonacci sequence is viewed as a one-dimensional aperiodic, lattice and these ideas are extended to two- and three-dimensional Penrose tilings and the concept of incommensurate projections. The structural properties of

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aperiodic crystals and the growth of certain biological organisms are described in terms of Fibonacci sequences.

Climate change negotiations have failed the world.

Despite more than thirty years of high-level, global talks on climate change, we

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are still seeing carbon emissions rise dramatically. This edited volume, comprising leading and emerging scholars and climate activists from around the world, takes a critical look at what has gone wrong and what is to be done to create more decisive action.

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Composed of twenty-eight essays—a combination of new and republished texts—the anthology is organised around seven main themes: paradigms; what counts?; extraction; dispatches from a climate change frontline country; governance; finance;

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and action(s). Through this multifaceted approach, the contributors ask pressing questions about how we conceptualise and respond to the climate crisis, providing both 'big picture' perspectives and more focussed case studies. This unique and

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extensive collection
will be of great value
to environmental and
social scientists alike,
as well as to the
general reader
interested in
understanding current
views on the climate
crisis.

The Golden Ratio And
Fibonacci Numbers
Dignity, Value, and

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the Renewable Energy

Frontier in Spain

Heads in the Sand

Environmental

Defenders

Abundant Energy

This three

volume

compendium

begins with a

review of our

past dependence

on fossil fuels

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as our primary energy source and our future needs to change how our energy is produced and utilized due to diminishing resources and environmental impact. The first volume presents the

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*major options
for carbon-free
energy
including
hydroelectric
and solar
energy for both
thermal
applications
and the
production of
electricity,
wind energy,*

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and biofuels as a replacement in the transportation industry. Yet, all of these options will not work on a large scale without proper energy storage, which is the topic of the

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*second and
third volumes.
The second
volume reviews
the possible
methods of
storing energy
in the form of
mechanical or
thermal energy.
Mechanical
methods include
those that make*

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*use of
gravitational
potential
energy and the
storage of
energy by
compressing air
or by storing
as rotational
energy in a
flywheel.
Sensible heat
storage is*

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discussed in terms of its applications to residential heating, community-based storage, solar ponds, and thermal storage for grid-integrated energy systems.

The third

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volume

*considers
various methods
of energy
storage that
make use of
electrochemical
reactions,
electric and
magnetic
fields, and
chemical
reactions. It*

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*outlines
multiple types
of batteries as
well as superca
pacitors, pseud
o-capacitors,
and hybrid
capacitors. It
ends with
techniques in
chemical energy
storage and the
use of*

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*hydrogen,
methane,
methanol, and
ammonia as
energy
carriers.
Offering a
thought
provoking
theoretical
conversation
around
ecological*

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*crisis and
natural
resource
extraction,
this book
suggests that
we are on a
trajectory
geared towards
total
extractivism
guided by the
mythological*

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World eater. The authors discuss why and how we have come to live in this catastrophic predicament, rooting the present in an original perspective that animates the forces of

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*global techno-
capitalist
development.
They argue that
the Worldeater
helps us make
sense of the
insatiable
forces that
transform,
convert and
consume the
world. The book*

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*combines this
unique approach
with detailed
academic review
of critical
agrarian
studies and
political
ecology, the
militarization
of nature and
the
conventional*

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*and 'green'
extraction
nexus. It seeks
radical
reflection on
the role people
play in the
construction
and
perpetuation of
these crises,
and concludes
with some*

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*suggestions on
how to tackle
them.*

*Wind energy is
often portrayed
as a panacea
for the
environmental
and political
ills brought on
by an
overreliance on
fossil fuels,*

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but this characterization may ignore the impact wind farms have on the regions that host them. Power Struggles investigates the uneven allocation of risks and benefits in the

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*relationship
between the
regions that
produce this
energy and
those that
consume it.*

*Jaume Franquesa
considers
Spain, a
country where
wind now
constitutes the*

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*main source of
energy
production. In
particular, he
looks at the
Southern
Catalonia
region, which
has
traditionally
been a source
of energy
production*

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through nuclear reactors, dams, oil refineries, and gas and electrical lines. Despite providing energy that runs the country, the region is still forced to the political and

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*economic
periphery as
the power they
produce is
controlled by
centralized,
international
Spanish
corporations.
Local
resistance to
wind farm
installation in*

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*Southern
Catalonia
relies on the
notion of
dignity: the
ability to live
within one's
means and
according to
one's own
decisions.*

*Power Struggles
shows how,*

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*without careful
attention,
renewable
energy
production can
reinforce
patterns of
exploitation
even as it
promises a fair
and hopeful
future.*

Climate change

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is one of the most critical issues of the twenty-first century, presenting a major intellectual challenge to both the natural and social sciences. While

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there has been significant progress in natural science understanding of climate change, social science analyses have not been as fully developed.

Climate Change

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and Society

*breaks new
theoretical and
empirical
ground by
presenting
climate change
as a thoroughly
social
phenomenon,
embedded in
behaviors,
institutions,*

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and cultural practices. This collection of essays summarizes existing approaches to understanding the social, economic, political, and cultural dimensions of

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climate change.

From the

factors that

drive carbon

emissions to

those which

influence

societal

responses to

climate change,

the volume

provides a

comprehensive

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*overview of the
social
dimensions of
climate change.
An improved
understanding
of the complex
relationship
between climate
change and
society is
essential for
modifying*

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Energy Dunlap

*ecologically
harmful human
behaviors and
institutional
practices,
creating just
and effective
environmental
policies, and
developing a
more
sustainable
future. Climate*

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Change and Society provides a useful tool in efforts to integrate social science research, natural science research, and policymaking regarding climate change

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and

sustainability.
Produced by the
American
Sociological
Association's
Task Force on
Sociology and
Global Climate
Change, this
book presents a
challenging
shift from the

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*standard
climate change
discourse, and
offers a
valuable
resource for
students,
scholars, and
professionals
involved in
climate change
research and
policy.*

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Energy Dunlap
Novel

*Microstructures
for Solids*

*An Introduction
to the Physics
of Nuclei and
Particles*

Si Edition

Electrical

Wiring

Residential

Engineering

Applications in

Read Book Sustainable Energy Dunlap

*Sustainable
Design and
Development*

The effect which now bears his name, was discovered in 1958 by Rudolf Mössbauer at the Technical University of Munich. At first, this appeared to be a phenomenon related to nuclear energy levels that provided some

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information about excited state lifetimes and quantum properties. However, it soon became apparent that Mössbauer spectroscopy had applications in such diverse fields as general relativity, solid state physics, chemistry, materials science, biology, medical physics, archeology and art. It is the extreme

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sensitivity of the effect to the atomic environment around the probe atom as well as the ability to apply the technique to some interesting and important elements, most notably iron, that is responsible for the Mössbauer effect's extensive use. The present volume reviews the historical

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development of the Mössbauer effect, the experimental details, the basic physics of hyperfine interactions and some of the numerous applications of Mössbauer effect spectroscopy.

Human beings depend on energy. From burning wood to harnessing the atom, we have relied on the

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consumption of natural resources. As civilization grows and the demand for energy increases, we must ask ourselves how to best meet our energy needs while responsibly stewarding our resources. In *Abundant Energy: The Fuel of Human Flourishing*, Kenneth P. Green provides a brief history

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of our reliance on different sources of energy, explores the viability of both current and potential future sources, and offers a vision for the task of fueling human prosperity in the twenty-first century.

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AN INTRODUCTION
TO THE PHYSICS OF
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PARTICLES focuses on one of the most exciting areas of physics. Author Richard Dunlap has taught this course for the last ten years—during the last two of which he used this text successfully in his own classroom. The author designed this text to provide flexibility and freedom for instructors teaching a one-semester

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course by including a wealth of problems as well as approximately 20% more material than is necessary for the average 14-week course. In order to ensure that the book is up-to-date and interesting for the students, the author has included recent research results whenever possible and

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has presented data from ongoing experiments.

This is particularly relevant for fields in which there is considerable current research activity, such as neutrino masses and oscillations, quark masses and controlled fusion.

This up-to-date volume provides an essential part of undergraduate

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physics training. Until now, students were often expected to learn many experimental methods in the laboratory without proper introduction. The broad coverage of available techniques includes discussion of state-of-the-art electronic equipment, as well as such topics as discrete semi-conductor devices, signal

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instrumentation, and X-ray diffraction methods. Professor Dunlap's text will serve not only as a complete introduction for students but also as a reference work for technicians throughout a professional career. In addition to tutorial discussion presented, tables of numerical data and constants are included, further

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enhancing the book as a permanent reference.

Volumes 1 – 3

Experimental Physics
Sustainable Energy, SI
Edition

A critical approach to
the social acceptance of
renewable energy
infrastructures

The Mössbauer Effect

**Undoing the
Silence offers**

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**guidance to help
both citizens and
professionals
influence
democratic
process through
letters, articles,
reports and public
testimony. Louise
Dunlap, PhD,
began her career
as an activist
writing instructor**

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**during the Free
Speech Movement
of the 1960s. She
learned that
listening and
gaining a feel for
audience are just
as important to
social
transformation as
the outspoken
words of student
leaders atop police**

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cars. "Free speech is a first step, but real communication matches speech with listening and understanding. That is when thinking shifts and change happens." Dunlap felt compelled to go where the silences

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**were deepest
because her work
aimed not just at
teaching but also
at healing both
individual voices
and an ailing
collective voice.
Her tales of those
adventures and
what she knows
about the culture
of silence -- how**

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**gender, race,
education, class,
and family work to
quiet dissent -- are
interwoven with
practical methods
for people to put
their most
challenging ideas
into words. Louise
Dunlap gives
writing workshops
around the country**

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**for universities
and social justice,
environmental,
and peace
organizations that
help reluctant
writers get past
their internal
censors to find
their powerful
voice. Her insight
strengthens
strategic thinking**

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and her "You can do it!" approach makes social-action writing achievable for everyone.

SUSTAINABLE ENERGY focuses directly on energy related issues and includes a thorough treatment of all

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potentially viable energy sources. In most cases, individual chapters are devoted to each alternative energy approach. Although author Richard Dunlap covers past and current energy production methods, the text

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deals largely with future alternative energy strategies and follows the guidelines of ABET, the major engineering accreditation body. The book approaches these topics on a rigorous level -- familiarity with the

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**basic concepts of
freshman Physics
and Chemistry is
needed. The book
contains enough
material for a
typical one
semester course.
The end-of-chapter
problems are
predominantly
quantitative in
nature. However,**

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**most are not
straight forward
calculations based
on substituting
values from the
chapter in to the
appropriate
formula. The
problems are
designed to
require the
students to
analyze**

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**information, to
make use of
material from
previous chapters,
to correlate data
from various
sources (not only
from the textbook
itself but from
library, internet or
other sources) and
in many cases to
estimate quantities**

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**based on
interpretation of
graphical data,
interpolation of
values and
sometime just
plain common
sense. While
maintaining a
quantitative
approach to the
study of energy in
our society, the**

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**text and
accompanying
problems show
that this is a
complex and very
interdisciplinary
topic. This
approach is
intended to
provide students
with an
appreciation for
the real problems**

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that are encountered in the understanding of how we produce and use energy, and the realization that, while exact calculations are important and necessary, a broadly based analysis is often most appropriate.

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For many years,
evidence
suggested that all
solid materials
either possessed a**

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**periodic crystal
structure as
proposed by the
Braggs or they
were amorphous
glasses with no
long-range order.
In the 1970s,
Roger Penrose
hypothesized
structures
(Penrose tilings)
with long-range**

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order which were not periodic. The existence of a solid phase, known as a quasicrystal, that possessed the structure of a three dimensional Penrose tiling, was demonstrated experimentally in 1984 by Dan

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Shechtman and colleagues. Shechtman received the 2011 Nobel Prize in Chemistry for his discovery. The discovery and description of quasicrystalline materials provided the first concrete evidence that

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traditional crystals could be viewed as a subset of a more general category of ordered materials. This book introduces the diversity of structures that are now known to exist in solids through a consideration of

quasicrystals (Part I) and the various structures of elemental carbon (Part II) and through an analysis of their relationship to conventional crystal structures. Both quasicrystals and the various allotropes of

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**carbon are
excellent examples
of how our
understanding of
the microstructure
of solids has
progressed over
the years beyond
the concepts of
traditional
crystallography.**

**To Leave a
Memory is the**

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**heartwarming
story of a Georgia
family's struggle to
overcome a
devastating
tragedy. When
history professor
Andrew Ward
ignores his wife
Lizzy's
premonition that
something will
happen if he**

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allows their son to go out one stormy night, the teen dies on a rain-slick highway. Andrew is too anguished to admit he was wrong, and over the years he and Lizzy drift into avoidance. Forgotten in the marital divide, young daughter

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Jane can't forget or forgive her brother's death. Nor can Andrew's brother Thomas, an arrogant millionaire and a perpetual prickle in Andrew's side. Decades later, Lizzy decides to leave. Jane, now a tech guru and

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**mother of three,
urges her mother
to repair her
marriage.**

**Oblivious to the
women's plans,
Andrew hides in
his office, trying to
write a grand
apologia that will
finally atone for
his heartbreaking
error. But when a**

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**second tragedy
strikes, each
family member
faces a difficult
choice that no one
wants to make.**

**Negotiating
Climate Change in
Crisis**

**The Fuel of Human
Flourishing
The Greenest
Nation?**

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**Renewable Energy
Wind Energy
Development,
Conflict and
Resistance in a
Latin American
Context**

**The skyrocketing
demand for clean,
abundant energy has
resulted in a need for
comprehensive
information that can**

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be used by builders, technicians, energy industry professionals, and anyone else wanting to learn about alternative forms of energy and their everyday uses. With a vast array of information available on the subject, *Alternative Energy: Sources & Systems* stands out from the

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crowd as an easy-to-read resource on current, mainstream technologies as well as those on the horizon. This book bridges the gap between overly simplistic information and high-level engineering materials. Instead, Alternative Energy: Sources & Systems serves as a comprehensive guide

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that explores solar, wind, and other sources, and the technology available to harness them. Readers will gain a better understanding of how these systems work as well as how they are put together. Check out our app, DEWALT Mobile Pro™. This free app is a construction

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integrated reference
materials and access to
hundreds of additional
calculations as add-
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