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*"Raven's 8th edition of
Environment offers more*

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*detailed content than
the Visualizing text for
a better understanding
and integration of the
core environmental
systems and to view and
analyze the role those*

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*systems play. Shorter,
but still comprehensive
coverage focuses on
ethical decision making
and key local
environmental science
issues, requiring*

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*readers to think
critically about the
course material outside
of the classroom. Other
features include brief
text in the
comprehensive segment;*

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extensive chapter

pedagogy to help

reinforce the systems

approach; more

opportunities to think

critically about the how

systems intersect and

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*fit together; and new
data interpretation
questions at the end of
each chapter" - -*

*Much attention in the
West has focused on Iran
as a problem country.*

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*This book challenges the
representations of Iran
as a hostile regional
power led by ideologues,
and goes further by
discussing how
international relations*

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*are viewed from inside
Iran itself, outlining
the factors which
underpin Iranian
thinking on
international relations
and considering what*

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*role Iran, as a large
and significant country
in the Middle East,
ought to play in a
fairly constructed
international system.
The book is written by*

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*leading scholars and
policy makers from
inside, as well as from
outside, Iran and
includes academics with
unparalleled access and
insights into the world-*

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views of the Iranian
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*leadership. Subjects
covered include: the
rationale of Iran's
Islamic constitution,
including its electoral
system, and the impact*

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*this has on
international relations;*

Iran's view of the ideal

international system,

including the place

therein of ethics,

justice, and security;

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*Iran's international
interests, including
energy needs; and
relations with the West,
including the clash
between Iranian and
Western views of the*

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world order.

*Millions of children and
adults across the nation
spend their days in
school buildings, and
they need safe, healthy
environments to thrive,*

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*learn, and succeed. This
book explores the school
environment using the
methods and perspectives
of environmental health
science. Though
environmental health has*

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*long been understood to
be an important factor
in workplaces, homes,
and communities, this is
the first book to
address the same basic
concerns in schools. The*

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*editors are physicians
and educators trained in
pediatrics, occupational
and environmental
medicine, and medical
toxicology, and the
authors are experts in*

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*their fields drawn from
across the United States
and abroad. Each section
of the book addresses a
different concern facing
schools today. In the
first six sections, the*

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various aspects of the
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school environment are
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examined. Chapters
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include the physical
environment of the
school, air quality
issues, pest control,

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*cleaning methods, food
safety, safe designs of
playgrounds and sports
fields, crime and
violence prevention, and
transportation. In the
last two sections,*

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*recommendations are made
for school
administrators on how to
maximize the health of
their schools.*

*Appropriately evaluating
the school environment,*

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*implementing strategies
to address children and
adults with
disabilities,
emphasizing health
services, infectious
disease prevention and*

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*recognition, and
occupational health for
faculty and staff are
all addressed. The
entire book is evidence-
based, readable,
generously illustrated,*

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and practical. An

indispensable resource
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*for parents, school
staff, administrators,
government officials,
and health*

professionals, this book

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*is for anyone who cares
about the health of our
schools.*

*Toward a New Level of
Sociopolitical
Integration
D & B Consultants*

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for 2004

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**This volume examines the
extent to which global
deficiencies and**

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degradation of natural
resources, coupled with
their uneven

distribution, can lead
to unlikely alliances,
national rivalries, and
even war. The study

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**evaluates the influence
of such factors as
geographical
distribution,
availability, scarcity,
and depletion of the
world's natural**

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resources--including
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oil, natural gas,
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minerals, fresh water,
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ocean fisheries, and
food crops--on strategic
and military policy-
making. Westing also

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studies the effect of
differential population
growth on the actual and
perceived availability

of resources and

presents an expanded,

environmentally based

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view of international
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security.

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"This book investigates
the impact of diverse
cultures on the
development and
actualization of global

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economic entities,
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exploring advanced
methods and best
practices for the
effective utilization
and management of
financial organizations

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within a globalized
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context"--Provided by
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publisher.

Tribology is a
multidisciplinary
science that encompasses

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mechanical engineering,
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surface engineering,
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lubricants, and

additives chemistry with
tremendous applications.

Tribology and Surface

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**Engineering for
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Industrial Applications**
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discusses the latest in
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tribology and surface
engineering for
industrial applications.
This book: Offers

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information on coatings
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and surface diagnostics
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Explains a variety of
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techniques for improved
performance Describes
applications in
automotive, wheel and

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rail materials,
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manufacturing, and wind
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turbines Written for
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researchers and advanced
students, this book
encompasses a wide-
ranging view of the

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latest in industrial
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tribology and surface
engineering for a
variety of cross-
disciplinary
applications.

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International Political
Economy of Energy and
Natural Resources
Electricity from
Renewable Resources
An Annotated

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Hybrid Anisotropic
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Materials for Wind Power
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Turbine Blades

Justice and Natural
Resources

Energy and Water

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Appropriations for 2004

Based on rapid technological
developments in wind power,
governments and energy corporations
are aggressively investing in this
natural resource. Illustrating some of

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Hybrid Anisotropic Materials for Wind
Power Turbine Blades explores new
automated, repeatable production
techniques that expand the use of
robotics and process controls. These

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practices are intended to ensure
cheaper fabrication of less-defective
anisotropic material composites used
to manufacture power turbine blades.
This book covers new methods of
casting or pultrusion that reduce
thickness in the glass- and graphite-
fiber laminate prepregs used in load-

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bearing skin blades and web shear spars. This optimized process creates thinner, more cost-effective prepegs that still maintain strength and reliability. The book also addresses a wide range of vital technical topics, including: Selection of carbon/fiberglass materials Estimation

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of combination percentages
Minimization and optimal placement of
shear webs (spars) Advantages of
resin, such as lower viscosity and
curing time Strength and
manufacturing criteria for selecting
anisotropic materials and turbine blade
materials Analysis of dynamic fatigue

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Harwood
life and vibration factors in blade
design NDE methods to predict and
control deflections, stiffness, and
strength Written by a prolific composite
materials expert with more than 40
years of research experience, this
reference is invaluable for a new
generation of composite designers,

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graduate students, and industry professionals involved in wind power system design. Assessing significant required changes in transmission, manufacturing, and markets, this resource outlines innovative methods to help the U.S. Department of Energy meet its goal of having wind energy

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account for 20 percent of total
generated energy by 2030.

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Clean Electricity Through Advanced
Coal Technologies focuses on the
environmental damages caused by
power plant operations and the
environmental issues with solid waste,
air and impoundment issues such as

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the massive TVA spill in Kingston, TN.

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emissions, treatment and control

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techniques, worker and community
health risks, cost data for pollution
management, and cleaner production
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(9780815520351) Vol. 2 Best
Practices in the Wood and Paper
Industries (9780080964461) Vol. 3

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Electrical Safety Practices
Industry (9781437778250) Vol. 4

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Clean Electricity Through Advanced
Coal Technologies (9781437778151)

Vol. 5 Best Practices in the Mining
Industry (9781437778878) Discusses
the environmental impact of coal
power, including air pollution,

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greenhouse gas emissions and solid
toxic wastes. Focuses on newer coal
technologies with smaller
environmental footprints than existing
infrastructure. Provides an overview of
carbon capture and sequestration
technologies.

Energy and Water Development

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Appropriations for 2004 Hearings
Before a Subcommittee of the
Committee on Appropriations, House
of Representatives, One Hundred
Eighth Congress, First Session 108-1
Hearings: Energy and Water
Development Appropriations For 2004,
Part 4, 2003, *Handbook of

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Szidarovszky

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Challenges for Jus ad Bellum and Jus
in Bello

The Domestic Dynamics Of China's

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Contaminants of Concern

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Large-Scale Offshore Wind Power in
the United States

**This timely collection offers
fresh perspectives to the
analysis of the 'New Great
Game' - the fight for access to**

the Caspian Sea region's energy resources. To date, the export of the Caspian crude oil and natural gas has only been assessed geopolitically, which oversimplifies the political dynamics of the region and neglects to

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**acknowledge the Caspian
countries as actors in their
own right.**

**This Handbook offers a
comprehensive overview of
the latest research from
leading scholars on the
international political**

**economy of energy and
resources. Highlighting the
important conceptual and
empirical themes, the
chapters study all levels of
governance, from global to
local, and explore the wide
range of issues emerging in a**

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**changing political and
economic environment.**

**A valuable and comprehensive
safety reference for any
organization working with or
around electricity. This
comprehensive guide informs
working professionals in**

multiple industries, such as manufacturing, processing, or energy, about safety procedures that should be used on the job. It informs the reader about the hazards in the work place and what to do to make sure he/she is

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**protected. The Handbook of
International Electrical Safety
Practices presents readers
with the proper organizational
skills needed to avoid
hazardous injuries, details
environmental monitoring
techniques, and discusses how**

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**to ensure that proper
protection is used on the job.**

**The authors cover not only
obvious electrical safety
considerations, such as
exposed wires and evacuation
plans, but everything related
to electrical safety, such as air**

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**quality, sound level, and
radiation. This reference
provides the most**

**comprehensive coverage for
any company to keep
employees informed and to
keep their work environment
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**International Electrical Safety
Practices: Contains working
plans and templates for
evaluating safety
procedures and conditions in
the plant Covers common
hazards and how to avoid
them, such as radiation,**

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noise, air quality, fire, and
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comprehensive view of
workers' rights and

international regulations Goes
beyond regulations and laws
to provide a workable
blueprint for creating a safe

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World Trade Organization

Obligations: A Review of

China's First Two Years of

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Environment

Introduction to Materials for

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**Advanced Energy Systems
Globalization and Governance
in the International Political
Economy
Optimization and Dynamics
with Their Applications
Energy: a Continuing
Bibliography with Indexes**

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Armed non-state actors (ANSAs) often have economic aims that international law needs to respond to. This book looks at the aim of Islamic State to create an effective government, with an economically independent regime, which

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focused on key oilfields in Syria and Iraq. Having addressed Islamic State's quest for energy resources in Iraq and Syria, the book explores the lawfulness of the war with Islamic State from a variety of legal aspects. It has been

attempted to make inroads into
the most controversial aspects of
contradictions in the application of
jus ad bellum and jus in bello,
particularly when discussing the
use of extraterritorial armed force
against ANSAs, and the obligation

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to protect civilian objects,
including the natural environment.

The question is whether the
targeting of energy resources
should be regarded as a violation
of the laws of armed conflict, even
though the war with Islamic State

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being classified as a non-
international armed conflict.

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Hardcover
Ambitious in scope, the study
argues that legal theory and state
practice are still problematic as to
how and under what conditions
states can justify resorting to

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military force in foreign territory,
and to what extent they can target
natural resources as being part of
state property. Furthermore, it
goes on to examine the
differences between international
and non-international armed

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conflicts, to establish whether there is any difference in the targeting of energy resources as part of the war-sustaining capabilities of either party. Through an examination of the Islamic State case, the book offers

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Handbook
a comprehensive study to close
the gaps in jus in bello by
contextualising the questions of
civilian protection, victimisation

and state responsibility by
evaluating the US's war-sustaining
theory as a justification for the

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destruction of a territorial state's
natural resources that are
occupied by ANSAs.

A component in the America's
Energy Future study, Electricity
from Renewable Resources
examines the technical potential

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for electric power generation with alternative sources such as wind, solar-photovoltaic, geothermal, solar-thermal, hydroelectric, and other renewable sources. The book focuses on those renewable sources that show the most

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promise for initial commercial
deployment within 10 years and
will lead to a substantial impact on
the U.S. energy system. A
quantitative characterization of
technologies, this book lays out
expectations of costs,

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performance, and impacts, as well as barriers and research and development needs. In addition to a principal focus on renewable energy technologies for power generation, the book addresses the challenges of incorporating

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such technologies into the power
grid, as well as potential
improvements in the national
electricity grid that could enable
better and more extensive
utilization of wind, solar-thermal,
solar photovoltaics, and other

renewable technologies.
During 1998 and 1999, the
National Wind Coordinating
Committee (NWCC) conducted an
assessment of distributed wind
power. The project team was led
by Princeton Economic Research,

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Inc., now known as Princeton
Electrical Safety Practices
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(PERI). Financial support was
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provided by the US Department of
Energy (DOE) through the wind
energy program at the National
Renewable Energy Laboratory

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(NREL) and the Electric Power
Electrical Safety Practices,
Research Institute (EPRI). Project
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oversight and review were
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provided by NWCC's Distributed
Working Group. The overall
objective for the NWCC
assessment was to enhance

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understanding of business, policy,
and technical issues associated
with the deployment of wind-
electric generating systems in the
distributed-generation mode. In
general, that mode is defined by
placement of the generation close

to customers-in contrast to large,
distant central stations-and by
electrical interconnection to the
local distribution system-in
contrast to higher voltage
electrical transmission systems. As
a follow-up to the assessment,

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However

NWCC intends to prepare a
consensus-based issue brief that
summarizes its findings and
highlights the major results and
conclusions for each stakeholder
sector. This brief will also identify
key action steps that could be

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undertaken by each stakeholder
sector to facilitate the growth of
distributed wind. The aim of this
paper is to provide input to the
NWCC for its consideration in
developing the issue brief.
Accordingly, this paper is in no

way an NWCC consensus document. However, the authors hope to assist in the issue-brief preparation process by providing a starting point for NWCC's consideration. One of the authors, Joseph Cohen, led the team that

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performed the NWCC assessment.
The other two were involved in
management of the assessment
effort on behalf of the contracting
organizations and are active
members of the NWCC. They feel
the perspectives offered in this

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paper are well-grounded in the
findings of the assessment
research and can help in moving
the consensus process forward.
Supply Chain Strategies and the
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Global Resources and International

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Conflict

Strategic and Economic

Opportunities

Geothermal Energy

International Law and the War with

Islamic State

Evolution and International

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Handbook Of International
Organization

**This book presents a variety of
advanced research papers in
optimization and dynamics written by
internationally recognized researchers
in these fields. As an example of
applying optimization in sport, it
introduces a new method for finding the**

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**optimal bat sizes in baseball and
softball. The book is divided into three
parts: operations research, dynamics,
and applications. The operations
research section deals with the
convergence of Newton-type iterations
for solving nonlinear equations and
optimum problems, the limiting**

properties of the Nash bargaining solution, the utilization of public goods, and optimizing lot sizes in the automobile industry. The topics in dynamics include special linear approximations of nonlinear systems, the dynamic behavior of industrial clusters, adaptive learning in

**oligopolies, periodicity in duopolies
resulting from production constraints,
and dynamic models of love affairs. The
third part presents applications in the
fields of reverse logistic network design
for end-of-life wind turbines, fuzzy
optimization of the structure of
agricultural products, water resources**

**management in the restoration plans for
a lake and also in groundwater supplies.**

**In addition it discusses applications in
reliability engineering to find the
optimal preventive replacement times of
deteriorating equipment and using
bargaining theory to determine the best
maintenance contract. The diversity of**

**the application areas clearly illustrates
the usefulness of the theory and
methodology of optimization and
dynamics in solving practical problems.
Since the beginning of the 21st century,
China's energy diplomacy has been
expanding rapidly and the country is
searching for energy resources**

worldwide. This movement has not only improved China's energy security and international relations, but also enabled the Chinese national oil companies (NOCs) to access new investment markets and implement development strategies. The Chinese government and the NOCs need each other's support to

realise their respective interests. The interaction between the government and the NOCs will have a critical influence on China's energy diplomacy. The Domestic Dynamics of China's Energy Diplomacy explores the long-neglected domestic dynamics of China's energy diplomacy, in particular the interaction

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of national and corporate interests. It argues that the convergence of national and corporate interests is the key momentum of China's energy diplomacy. It observes that the government-NOC relationship has been evolving with China's economic and enterprise reform. Finally, it tests the

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**empirical evidence of the domestic
dynamics of China's energy diplomacy
against the three mainstream
international political economy theories,
showing their merits and shortcomings
in explaining the phenomenon, before
providing an alternative
conceptualisation of the movement.**

Our world is increasingly marked by climate change, environmental degradation, and conflict over precious resources such as oil, water, and land. In each case, access to valuable resources is at stake. But to date we have no comprehensive account of the demands of justice when it comes to

natural resources. This book fills that gap. It provides a systematic account of how to think about natural resources, and the conflicting claims people have over them. It criticises the status quo in world politics, according to which resources themselves, and decisions about how to use them, are the preserve

of individual states. Instead it shows that justice requires a more equal sharing of the benefits and burdens that flow from the world's resources, and shared management of many of the world's resources.

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the Geothermal Technologies Program
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hearings before a subcommittee of the
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today ' s students to understand
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challenges, to acquire skills for
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approach to materials, mechanics,
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including fossil, nuclear, solar, bio,
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chapter is devoted to emerging
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performance, modeling, fabrication,
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materials are described for each
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selection, optimizing design, and component operating conditions in each energy system. Research and development trends of novel emerging materials for future hybrid energy systems are also considered. Each chapter is

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basically a self-contained unit,
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textbook is suitable for students in
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of materials-based solutions for
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Britain demonstrate natural
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compelling color guidebook for
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schoolyard environments that
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With this book, Danks broadens

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our notion of what a well-designed
schoolyard should be, taking
readers on a journey from
traditional, ordinary grassy fields
and asphalt, to explore the vibrant
and growing movement to "green"
school grounds in the United States

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and around the world. This book documents exciting green schoolyard examples from almost 150 schools in 11 countries, illustrating that a great many things are possible on school grounds when they are envisioned

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as outdoor classrooms for hands-on learning and play. The book's 500 vivid, color photographs showcase some of the world's most innovative green schoolyards including: edible gardens with fruit trees, vegetables, chickens, honey

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bees, and outdoor cooking
facilities; wildlife habitats with
prairie grasses and ponds, or forest
and desert ecosystems; schoolyard
watershed models, rainwater
catchment systems and waste-
water treatment wetlands;

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renewable energy systems that
power landscape features, or the
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projects that give new life to old
materials in beautiful ways; K-12
curriculum connections for a wide
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and math to art and social studies;
creative play opportunities that
diversify school ground
recreational options and encourage
children to run, hop, skip, jump,
balance, slide, and twirl, as well as
explore the natural world first

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hand. The book grounds these examples in a practical framework that illustrates simple landscape design choices that all schools can use to make their schoolyards more comfortable, enjoyable and beautiful, and describes a

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participatory design process that
schools can use to engage their
school communities in
transforming their own asphalt
into ecosystems.

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As the world population grows and places more demand on limited fossil fuels, renewable energy becomes more relevant as part of the solution to the impending energy dilemma.

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Renewable energy is now included in national policies, with goals for it to be a significant percentage of generated energy within the coming decades. A comprehensive overview, Introduction to Renewable Energy explores how we can use

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*the sun, wind, biomass,
geothermal resources, and water
to generate more sustainable
energy. Taking a
multidisciplinary approach, the
book integrates economic, social,
environmental, policy, and
engineering issues related to*

renewable energy. It explains the fundamentals of energy, including the transfer of energy, as well as the limitations of natural resources. Starting with solar power, the text illustrates how energy from the sun is transferred and stored; used for

*heating, cooling, and lighting;
collected and concentrated; and
converted into electricity. A
chapter describes residential
power usage—including
underground and off-grid
homes—and houses that are
designed to use energy more*

efficiently or to be completely self-sufficient. Other chapters cover wind power; bioenergy, including biofuel; and geothermal heat pumps; as well as hydro, tidal, and ocean energy. Describing storage as a billion-dollar idea, the book discusses the challenges

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***of storing energy and gives an
overview of technologies from
flywheels to batteries. It also
examines institutional issues
such as environmental
regulations, incentives,
infrastructure, and social costs
and benefits. Emphasizing the***

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concept of life-cycle cost, the book analyzes the costs associated with different sources of energy. With recommendations for further reading, formulas, case studies, and extensive use of figures and diagrams, this textbook is suitable for

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***undergraduates in Renewable
Energy courses as well as for non-
specialists seeking an
introduction to renewable energy.
Pedagogical Features: End-of-
chapter problems Numerous case
studies More than 150 figures
and illustrations A solutions***

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***manual is available upon
qualifying course adoption***

***This new volume provides a
timely study on the***

***environmental challenges from a
specific class of perfluorinated
chemical compounds (PFCs) that
are now being recognized as a***

worldwide health threat. Recent studies report that levels of classes of PFCs known as polyfluoroalkyl and perfluoroalkyl (PFASs) exceed federally recommended safety levels in public drinking-water supplies for 6 million people in the United

States and that as many as 100 million people could be at risk from exposure to these chemicals. These chemicals occur globally in wildlife and humans. Both PFCAs and PFSA's have been produced for more than 50 years, but have only become of interest

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to regulators and environmentalists since the late 1990s. Recent advances in analytical methodology has enabled widespread detection in the environment and humans at trace levels. These toxic chemicals have been found in

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**outdoor and indoor air, surface
and drinking water, house dust,
animal tissue, human blood
serum, and human breast milk.**

**Of great concern to communities
is the presence of these
compounds in a number of
drinking water supplies in the**

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U.S. and other countries. This new volume provides a timely explanation of the chemicals, provides a detailed review of the regulations both in the US and European Community, explains the health risk literature, and then explores in great detail

*available treatment technologies.
The volume is a must for public
water supply facilities, industrial
operations that have historically
used these chemicals and face
legacy pollution issues, policy
makers and the general public.
phase two spanned the time from*

*the late 1930's to about 1950
(Sohn's period III and Yalem's
periods II and III). The literature
produced during these years
revealed an ambivalent reaction
toward the apparent inability of
international organizations,
particularly the League of*

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***Nations, to control violence or
contribute to the solution of
conflicts among major powers.
The advocates of a world state
saw vindicated their position that
an even stronger tmiversal
supranational authority was
required to assure the repression***

or deterrence of international aggression. However, the 'realist' position, laying claim to greater scientific validity, argued 'the inlportance of political and ideo logical conflicts as barriers to international cooperation' (Yalem, 1966: 2). The excellent

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***analysis by Ronald Rogowski
(1968) shows how the twin
positions of 'idealism' and
'realism' proceed from an
identical paradigm of world
politics: a nation-state system
with little or no integrative
superstructure. They differ,***

however, in their epistemological outlook. The realists display a positivistic standpoint: taking the international system and its premise, power politics, as unalterable givens, they inquire into the feasibility of international organization under

these circumstances. The idea lists adopt what one might call a critical approach toward social analysis: they do not deny the positive validity of the realists' findings, but they reject the notion that power politics is an mlalterable impediment.

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This book will be of
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In 2006, Pres. Bush emphasized the nation's need for greater energy efficiency and a more diversified energy portfolio. This led to a collaborative effort to explore a modeled energy scenario in which wind provides 20% of U.S. electricity

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by 2030. Members of this 20% Wind collaborative produced this report to start the discussion about issues, costs, and potential outcomes associated with the 20% Wind Scenario. The report considers some associated challenges, estimates the

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impacts, and discusses specific needs and outcomes in the areas of technology, manufacturing and employment, transmission and grid integration, markets, siting strategies, and potential environmental effects associated with a 20% Wind Scenario.

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is a task by Princeton Energy
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Program. The main challenge in the
analysis lies in translating R & D
results to a quantitative reflection of

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technical risk for a key Program
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