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Electricity is the lifeblood of modern society, and for the vast majority of people that electricity is obtained from large, interconnected power grids. However, the grid that was developed in the 20th century, and the incremental improvements made since then, including its underlying analytic foundations, is no longer adequate to completely meet the needs of the 21st century. The next-generation electric grid must be more flexible and resilient. While fossil fuels will have their place for decades to come, the grid of the future will

need to accommodate a wider mix of more intermittent generating sources such as wind and distributed solar photovoltaics. Achieving this grid of the future will require effort on several fronts. There is a need for continued shorter-term engineering research and development, building on the existing analytic foundations for the grid. But there is also a need for more fundamental research to expand these analytic foundations. Analytic Research Foundations for the Next-Generation Electric Grid provide guidance on the longer-term critical areas for research in mathematical and computational sciences that is needed for the next-generation grid. It offers

recommendations that are designed to help direct future research as the grid evolves and to give the nation's research and development infrastructure the tools it needs to effectively develop, test, and use this research.

A comprehensive and progressive book about women in the AIDS epidemic. With informative discussion of safer sex and sexuality, HIV testing, treatment and drug trials, public policy and activism. Looking specifically to lesbians, heterosexuals, bisexuals, prostitutes, intravenous drug users, teenagers, mothers, pregnant women, and women in prisons, this book is essential reading for everyone concerned about

women's health and the AIDS crisis.

A historic energy revolution is underway in the United States.

Wind, sunlight, and other sustainable resources are now the fastest growing sources of energy in the U.S. and worldwide.

American families are installing power plants on their roofs and entire communities are switching to 100 percent renewable energy. The urgent need to prevent climate change is causing people around the planet to question their reliance on carbon-intensive oil, coal, and natural gas. Author Bill Ritter, Jr., the 41st governor of Colorado and one of America's key thought leaders on this topic, discusses the forces behind the energy revolution, the new ways

we must think about energy, and the future of fossil and renewable fuels. It is an essential read for any who want to understand one of history's biggest challenges to peace, prosperity, and security in the United States. Written in partnership with the Center for a New Energy Economy.

This book examines youth media practices on social media, introducing the concept of connective journalism as a precursor to collective political action.

**The Oxford Handbook of Professional Economic Ethics
A Constructive Theology for Living Into Hope**

FUNDAMENTALS OF DIGITAL CIRCUITS

Energy Law Basics

The Longest Tunnels

Electromagnetic Field Theory

Exploring the practical aspects of atmospheric optical communication and light detection and ranging (LIDAR), Applied Aspects of Optical Communication and LIDAR details the role of atmospheric structures in propagation phenomena that influence the transmission of optical signals through perturbed atmospheric communication channels. It examines numerous situations in over-the-terrain atmospheric communication channels, including the effects of natural phenomena and the corresponding features (turbulences and hydrometeors) on optical ray propagation. Bridging

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the gap between the parameters of optical communication links and signal information data streams, this concise reference addresses line-of-sight (LOS) as well as obstructive non-line-of-sight (NLOS) propagation conditions. It also: Details the main characteristics of optical communication channels Introduces the quasi-regular gaseous atmosphere Describes numerous situations in the atmospheric communication channel Explains the main characteristics of optical communication channels Complete with parameters for information data streams, the text also provides time-saving suggestions for

determining which optical devices will work best for minimizing the deleterious effects of natural atmospheric phenomena. Whether you're a researcher, an engineer, or student—this book provides you with the practical understanding required to use LIDAR to investigate all forms of atmospheric phenomena and to learn how to accurately predict primary parameters of atmospheric optical channels.

*Chronicles the responses of societies in times past to deadly diseases and illnesses, exploring the relevance of, and the lessons to be learned from, these events in terms of the current AIDS crisis
This book presents the basic*

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concepts used in the design and analysis of digital systems and introduces the principles of digital computer organization and design. Our brains are hard-wired to experience the emotion of fear. Yet "do not be afraid" is a common refrain from the Bible, used for both comfort and chastening. We have often treated fear as something to be dismissed or suppressed. Being afraid means more than simply fighting or running from a threat; to be afraid is to remember that something in life is worth living for. Whitehead helps us find the roots of hope in the soil of our fears so that we can form lives and communities of hope in the midst of a culture of fear.

*Attribution of Extreme Weather
Events in the Context of Climate
Change*

*Carbon Dioxide Removal and
Reliable Sequestration*

A Finer Future

*Creating an Economy in Service to
Life*

COMADEM 2019

Toward an Ecological Civilization

*This textbook addresses imaging
from the system engineering point
of view, examining advantages and
disadvantages of imaging in
various spectral regions. Focuses on
imaging principles and system
concepts, rather than devices.
Intended as a senior-year
undergraduate or graduate level*

engineering textbook. A solution manual is included.

A program for building a global clean energy economy while expanding job opportunities and economic well-being. In order to control climate change, the International Panel on Climate Change (IPCC) estimates that greenhouse gas emissions will need to fall by about forty percent by 2030. Achieving the target goals will be highly challenging. Yet in Greening the Global Economy, economist Robert Pollin shows that they are attainable through steady, large-scale investments—totaling about 1.5 percent of global GDP on an annual basis—in both energy

efficiency and clean renewable energy sources. Not only that: Pollin argues that with the right investments, these efforts will expand employment and drive economic growth. Drawing on years of research, Pollin explores all aspects of the problem: how much energy will be needed in a range of industrialized and developing economies; what efficiency targets should be; and what kinds of industrial policy will maximize investment and support private and public partnerships in green growth so that a clean energy transformation can unfold without broad subsidies. All too frequently, inaction on climate change is

blamed on its potential harm to the economy. Pollin shows greening the economy is not only possible but necessary: global economic growth depends on it.

Facing Climate Change explains why people refuse to accept evidence of a warming planet and shows how to move past partisanship to reach a consensus for action. A climate scientist and licensed Jungian analyst, Jeffrey T. Kiehl examines the psychological phenomena that twist our relationship to the natural world and their role in shaping the cultural beliefs that distance us further from nature. He also accounts for the emotions triggered

by the lived experience of climate change and the feelings of fear and loss they inspire, which lead us to deny the reality of our warming planet. But it is not too late. By evaluating our way of being, Kiehl unleashes a potential human emotional understanding that can reform our behavior and help protect the Earth. Kiehl dives deep into the human brain's psychological structures and human spirituality's imaginative power, mining promising resources for creating a healthier connection to the environment—and one another. Facing Climate Change is as concerned with repairing our social and political fractures as it is with

reestablishing our ties to the world, teaching us to push past partisanship and unite around the shared attributes that are key to our survival. Kiehl encourages policy makers and activists to appeal to our interdependence as a global society, extracting politics from the process and making decisions about our climate future that are substantial and sustaining.

Professor Du Vivier reviewed dozens of syllabi for energy law courses and brought that review, as well as her more than 25 years of law teaching, to bear when creating this Energy Law Basics (ELB) book. Energy Law is not one body of law, and an energy practice may involve

a wide variety of skills. Consequently, no two energy law courses cover the same body of material. In addition, energy law changes quickly, and course materials must be updated constantly for accuracy. ELB was designed with these drivers in mind. Alternatively, ELB can be adopted to provide a framework for a course, which the professor then supplements with (1) some or all of the nine skills exercises in part IV of the book; (2) more in-depth readings or books on particular topics; (3) student reports and discussions on current hot topics or updates about energy news; or (4) student seminar paper

presentations. Alternatively, because ELB chapters are easy to mix and match and can stand on their own, the book can be ideal for short courses or as a supplement to other textbooks.

Climate Intervention

Optical Waves and Laser Beams in the Irregular Atmosphere

EE2001, Circuit Analysis

HIV/AIDS Surveillance

Young People and the Future of News

A Comparative Perspective

The book introduces optical wave propagation in the irregular turbulent atmosphere and the relations to laser beam and LIDAR

applications for both optical communication and imaging. It examines atmosphere fundamentals, structure, and content. It explains specific situations occurring in the irregular atmosphere and for specific natural phenomena that affect optical ray and laser beam propagation. It emphasizes how to use LIDAR to investigate atmospheric phenomena and predict primary parameters of the irregular turbulent atmosphere and suggests what kinds of optical devices to operate in different atmospheric situations to minimize the deleterious effects of natural atmospheric phenomena.

As climate has warmed over recent years, a new pattern of more frequent and more intense weather events has unfolded across the globe. Climate models simulate such changes in extreme events, and some of the reasons for the changes are well understood. Warming increases the likelihood of extremely hot days and nights, favors increased atmospheric moisture that may result in more frequent heavy rainfall and snowfall, and leads to evaporation that can exacerbate droughts. Even with evidence of these broad trends, scientists cautioned in the past that individual weather events couldn't be

attributed to climate change. Now, with advances in understanding the climate science behind extreme events and the science of extreme event attribution, such blanket statements may not be accurate. The relatively young science of extreme event attribution seeks to tease out the influence of human-cause climate change from other factors, such as natural sources of variability like El Niño, as contributors to individual extreme events. Event attribution can answer questions about how much climate change influenced the probability or intensity of a specific type of weather event. As event attribution

capabilities improve, they could help inform choices about assessing and managing risk, and in guiding climate adaptation strategies. This report examines the current state of science of extreme weather attribution, and identifies ways to move the science forward to improve attribution capabilities.

Special Features:

- Power semiconductor devices are viewed from the physics, circuit, modeling and thermal viewpoints for a better understanding of the devices.
- AC-DC, DC-DC, DC-AC converters and magnetic devices are treated from both the conceptual and design

perspectives.· A separate chapter is included that addresses the analysis and design of linear regulators.· A chapter is included to address the modeling methods to obtain dynamic models of power electronics systems. The method of bond graph is introduced for modeling power electronics systems.· The design of discrete domain controllers in both classical and state space approach are included which addresses the needs of power electronic systems.· Optimal and robust control design methods as applied to power electronics systems are addressed.· Discrete numerical algorithms for digital implementation

with respect to power electronics systems are addressed in a separate chapter. • A separate chapter is devoted to the thermal aspects like heat sink sizing for power electronics systems. • Design integration by specifying and designing for reliability with power electronics system examples is another unique feature of this book. • The appendices include the following:

- o Derivation of the area product for a saturable-core transformer.**
- o Representative list of commonly used core types and their physical parameters.**
- o Representative list of commonly used wire gauges.**
- o Laplace transforms**

and z-transforms of few time domain signals.o List of specifications for the induction motor used for controller design.o

Description of all the object parameters for various electronic components from the reliability prediction viewpoint. Pedagogy

includes:o 600+ illustrations and line diagrams.o 480+ descriptive questions.o 440+ objective questions.o 200+ unsolved problems.o 50+ explanatory examples and solved problems.Companion

CD contains:· Reliability prediction toolbox· Bond graph simulation toolbox· Several circuit and design examples About The Book:

This book on power electronics spans a wide knowledge base such as power devices, drives, circuit topologies, magnetics, system modeling, control configurations, digital processing, thermal and reliability aspects. The book has been broadly divided into two types of topics viz. (a) circuit-oriented aspects and (b) system-oriented aspects. The first seven chapters deal with circuit-oriented aspects of power electronics systems and the remaining chapters deal with system-oriented aspects like controls and reliability. The comprehensive study of electric, magnetic and

combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge distributions, electric flux, electric flux density, Gauss's law,

divergence and divergence theorem. The book continues to explain the concept of elementary work done, conservative property, electric potential and potential difference and the energy in the electrostatic fields. The detailed discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book. The book provides the discussion of Poisson's and Laplace's equations and their use in variety of practical applications. The chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law and its

applications, concept of curl, Stoke's theorem, scalar and vector magnetic potentials. The book also includes the concept of force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details of Faraday's laws, time varying fields, Maxwell's equations and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good conductors. The book uses plain, lucid language to explain each topic. The book provides the logical method of

explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting. Germany's Energy Transition
POWER ELECTRONICS: ESSENTIALS & APPLICATIONS (With CD)

AIDS

Bisexual People Speak Out Facing Climate Change Bi Any Other Name

Toward a Life-Centered Economy: From the Rule of Money to the Rewards Stewardship shows how we as consumers and investors could shift the marketplace toward sustainable, non-polluting products and promote geographic re-localization. Economic synergism will give all the stakeholders a place at the table: labor, management, shareholders, customers, suppliers, community and, most especially, Earth's ecosystems.

The current money-centered economy is not sustainable because it is dependent on infinite growth. Human exploitation, or overexploitation of Earth's land, natural resources and biological productivity now approaches or exceeds many natural limits. By discounting the future in monetary terms our current system drives short-term extraction of resources at the expense of future generations. However, an attractive alternative can develop from the grassroots in parallel with the current system and replace its worst aspects. This life-centered economic system emphasizes

"quality of life" over "quantity of stuff." It implies a more thoughtful use of our time for the things that are truly important, such as, fulfillment of our individual potentials, and our relationships with family, friends and our greater community.

Toward a Life-Centered Economy is the 12th QIF Focus Book.

The advent of fiber optic transmission systems and wavelength division multiplexing (WDM) have led to a dramatic increase in the usable bandwidth of single fiber systems. This book provides detailed coverage of survivability (dealing with the

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risk of losing large volumes of traffic data due to a failure of a node or a single fiber span) and traffic grooming (managing the increased complexity of smaller user requests over high capacity data pipes), both of which are key issues in modern optical networks. A framework is developed to deal with these problems in wide-area networks, where the topology used to service various high-bandwidth (but still small in relation to the capacity of the fiber) systems evolves toward making use of a general mesh. Effective solutions, exploiting complex optimization techniques, and

heuristic methods are presented to keep network problems tractable. Newer networking technologies and efficient design methodologies are also described.

This book gathers select contributions from the 32nd International Congress and Exhibition on Condition Monitoring and Diagnostic Engineering Management (COMADEM 2019), held at the University of Huddersfield, UK in September 2019, and jointly organized by the University of Huddersfield and COMADEM International. The aim of the Congress was to promote

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awareness of the rapidly emerging interdisciplinary areas of condition monitoring and diagnostic engineering management. The contents discuss the latest tools and techniques in the multidisciplinary field of performance monitoring, root cause failure modes analysis, failure diagnosis, prognosis, and proactive management of industrial systems. There is a special focus on digitally enabled asset management and covers several topics such as condition monitoring, maintenance, structural health monitoring, non-destructive testing and other

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allied areas. Bringing together expert contributions from academia and industry, this book will be a valuable resource for those interested in latest condition monitoring and asset management techniques.

Electric Machinery

Fundamentals continues to be a best-selling machinery text due to its accessible, student-friendly coverage of the important topics in the field. Chapman's clear writing persists in being one of the top features of the book.

Although not a book on MATLAB, the use of MATLAB has been enhanced in the fourth edition. Additionally, many new

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problems have been added and remaining ones modified. Electric Machinery Fundamentals is also accompanied by a website that provides solutions for instructors, as well as source code, MATLAB tools, and links to important sites for students.

HIV/AIDS Surveillance Report

Digital Logic and Computer
Design

Electric Machinery

Fundamentals

A System Engineering Approach
to Imaging

Greening the Global Economy

A Course In Power Systems

This updated edition
includes: coverage of

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power-system estimation, including current developments in the field; discussion of system control, which is a key topic covering economic factors of line losses and penalty factors; and new problems and examples throughout.

In June 2015, a conference was held in Claremont, CA. Called Seizing an Alternative, the conference had one overarching goal: to bring together the best minds from as many fields as possible, both practical and academic, to confront

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the disastrous consequences of the Western worldview; the most urgent of which is climate change; and to offer an alternative. The alternative proposed by presenters was the philosophy of Alfred North Whitehead, and their hope was that those persuaded by it would bring that understanding back to their professions, their disciplines, their settings. In short, the goal was to transform the way we think. But what is process philosophy? The twelve essays in this book

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were designed not only to answer the what, but also to demonstrate the how and why; how process philosophy provides a practical answer to so many of the potentially catastrophic issues now facing us, and why the alternative of an organic, relational, integrated, nondual, and processive conceptuality is so urgently needed. In embracing Whitehead as ;the philosopher of ecological civilization, ; the authors also position themselves on the side of hope; not of the Pollyanna sort, but the kind that

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takes a clear-eyed look at what seems to be impossible and wrests from it what may yet be possible.

The Fourth edition of this well-received text continues to provide coherent and comprehensive coverage of digital circuits. It is designed for the undergraduate students pursuing courses in areas of engineering disciplines such as Electrical and Electronics, Electronics and Communication, Electronics and Instrumentation,

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Telecommunications,
Medical Electronics,
Computer Science and
Engineering, Electronics,
and Computers and
Information Technology. It
is also useful as a text
for MCA, M.Sc.

(Electronics) and M.Sc.

(Computer Science)

students. Appropriate for
self study, the book is
useful even for AMIE and
grad IETE students.

Written in a student-
friendly style, the book
provides an excellent
introduction to digital
concepts and basic design
techniques of digital

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circuits. It discusses Boolean algebra concepts and their application to digital circuitry, and elaborates on both combinational and sequential circuits. It provides numerous fully worked-out, laboratory tested examples to give students a solid grounding in the related design concepts. It includes a number of short questions with answers, review questions, fill in the blanks with answers, multiple choice questions with answers and exercise problems at the end of

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each chapter.

Toward a Life-Centered
EconomyFrom the Rule of
Money to the Rewards of
StewardshipProduccion
es de La Hamaca

Finding a Peaceful Heart
and Protecting the Earth
Applied Aspects of Optical
Communication and LIDAR
Why Our Brains Are Wired
to Ignore Climate Change
Putting Philosophy to Work
Women, AIDS, and Activism
Redeeming Fear

**“I am part of the generation that came
of age when *Bi Any Other Name* was
already in print. This groundbreaking
anthology gave me the language,
courage and sense of community I
needed as a young queer woman.”**

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—Daisy Hernández, *A Cup of Water Under My Bed* The 25th Anniversary Edition *Bi Any Other Name: Bisexual People Speak Out* first debuted in 1991. This groundbreaking book helped catalyze a national movement for bisexual identity, justice and equality. Often dubbed “the bisexual bible,” *Bi Any Other Name* was on Lambda Book Review’s Top 100 GLBT Books of the 20th century and became a beloved reference text in many classrooms, doctors’ offices, libraries, and pulpits. A 2007 Mandarin translation was published in Taiwan. The new 2015 introduction of this book updates readers to the enormous changes the past quarter century has brought – for bi people, the larger society and the sexual rights and liberation movement of which we are a part. When did you know? How did

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you come out? What was your experience? The coming out stories in this book speak to the many ways bisexuals embrace realities outside rigid either/or categories throughout the passage of our lives. Everyday stories of women, men, transgender bisexuals, teenagers to octogenarians, from many different cultures and family arrangements. The fierce truth of these lives made visible puts a check on bisexual erasure, exposing the binary constructions of gay/straight and male/female as oversimplifications that reduce spectrums to mere opposites. Caught between the mainstream culture's persistent discounting of bisexuality, the sensationalizing characterizations presented in media, and the sexual liberation movement's continual disregard of bisexuality as a serious

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identity, bisexual people are often not seen or heard when they speak out. There is a vital need for these earnest voices to be heard in the new century. Enormous cultural changes have occurred in the past 25 years, yes, but understanding bisexualities has just begun.

This collection is a serious attempt to explore the relationship between cultural content and the form AIDS takes in different cultural settings. Written mostly by anthropologists, these essays examine different cultural areas and AIDS: central Africa (Rwanda), New York City, Houston, and London. In addition, articles address topics such as stigmatization of AIDS victims by the press; language and AIDS; class variations in the delivery of social services as experienced by gay and bisexual men

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in New York City; and homophobia and AIDS. The volume is a valuable addition to the social-anthropological literature on AIDS and should be useful to professionals and for graduate and advanced undergraduate courses dealing with sociocultural aspects of AIDS. Choice AIDS has become a pandemic with major implications for the future vitality of humankind, according to this powerful new book compiled by the editor of the widely acclaimed *The Social Dimensions of AIDS*. As a cultural phenomenon the social patterning of AIDS can be explained and its direction largely predicted. *Culture and AIDS* is written almost entirely by anthropologists and represents the interest of dozens of anthropologists and represents the anthropologists' interest in AIDS

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related research and activities. Thirteen essays explore the social and cultural context of AIDS related behavior and clarify key domains in AIDS and the social sciences. This volume seeks to broaden its readers' understanding of how AIDS is changing our lives as it redirects human experience. Culture and AIDS is not intended as an introduction to AIDS. It looks at AIDS as a cultural phenomenon. It includes an introduction and postscript by its editor, Douglas A Feldman. Eleven essays explore: AIDS in Rwanda (Central Africa); A Haitian village handling AIDS; possible cofactors in HIV transmission; social service needs of gay men with AIDS in NYC; psychological factors influencing adjustment among HIV-infected gay men in Houston; social behavior of

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female prostitutes in London; social effects of AIDS on minority women; AIDS-related stigma in the press; language and AIDS; and other AIDS related areas.

Grid converters are the key player in renewable energy integration. The high penetration of renewable energy systems is calling for new more stringent grid requirements. As a consequence, the grid converters should be able to exhibit advanced functions like: dynamic control of active and reactive power, operation within a wide range of voltage and frequency, voltage ride-through capability, reactive current injection during faults, grid services support. This book explains the topologies, modulation and control of grid converters for both photovoltaic and wind power applications. In addition to

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power electronics, this book focuses on the specific applications in photovoltaic wind power systems where grid condition is an essential factor. With a review of the most recent grid requirements for photovoltaic and wind power systems, the book discusses these other relevant issues: modern grid inverter topologies for photovoltaic and wind turbines islanding detection methods for photovoltaic systems synchronization techniques based on second order generalized integrators (SOGI) advanced synchronization techniques with robust operation under grid unbalance condition grid filter design and active damping techniques power control under grid fault conditions, considering both positive and negative sequences Grid Converters for Photovoltaic and Wind

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Power Systems is intended as a coursebook for graduated students with a background in electrical engineering and also for professionals in the evolving renewable energy industry. For people from academia interested in adopting the course, a set of slides is available for download from the website.

www.wiley.com/go/grid_converters

Should a physician with AIDS be required to inform his or her patients? Does a physician have an obligation to warn the partner who wants this fact kept secret? Should all newborns and pregnant women be screened for HIV? Should insurance companies be required to insure patients who test positive for the disease? Professionals and society at large are confronted by a wide range of complex ethical issues produced by the AIDS health crisis.

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AIDS and Ethics is the first major collection of essays on the complex ethical issues created by the AIDS crisis. The nation's leading bioethics experts from the fields of law, medicine, philosophy, political science, religion, and social work present original and accessible essays. They address current controversial issues related to the tension between civil rights and public health, mandatory HIV testing, human subjects research, health care insurance, AIDS education, militant AIDS activism, the physician-patient relationship, issues of privacy, and legal issues. This important book will provide philosophical and practical guidelines to health care and human service professionals, policy makers, scholars, and others affected by the AIDS crisis. From the Rule of Money to the

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Rewards of Stewardship
Analytic Research Foundations for the
Next-Generation Electric Grid
Grid Converters for Photovoltaic and
Wind Power Systems
Power System Analysis
Toward a Life-Centered Economy
Social Media and the Rise of
Connective Journalism

The director of the Climate Outreach and Information Network explores the psychological mechanism that enables people to ignore the dangers of climate change, using sidebars, cartoons and engaging stories from his years of research to reveal how humans are wired to primarily respond to visible threats. This book analyzes Germany's path-breaking Energiewende, the country's transition from an energy system based on fossil and nuclear fuels to a sustainable energy system based on renewables. The

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authors explain Germany's commitment to a renewable energy transition on multiple levels of governance, from the local to the European, focusing on the sources of institutional change that made the transition possible. They then place the German case in international context through comparative case studies of energy transitions in the USA, China, and Japan. These chapters highlight the multifaceted challenges, and the enormous potential, in different paths to a sustainable energy future. Taken together, they tell the story of one of the most important political, economic, and social undertakings of our time.

For over a century the economics profession has extended its reach to encompass policy formation and institutional design while largely ignoring the ethical challenges that attend the profession's influence over the lives of

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others. Economists have proven to be disinterested in ethics. Embracing emotivism, they often treat ethics a matter of mere preference. Moreover, economists tend to be hostile to professional economic ethics, which they incorrectly equate with a code of conduct that would be at best ineffectual and at worst disruptive to good economic practice. But good ethical reasoning is not reducible to mere tastes, and professional ethics is not reducible to a code. Instead, professional economic ethics refers to a new field of investigation—a tradition of sustained and lively inquiry into the irrepressible ethical entailments of academic and applied economic practice. The Oxford Handbook of Professional Economic Ethics explores a wide range of questions related to the nature of ethical economic practice and the content of professional economic ethics. It explores current thinking that has emerged in these

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areas while widening substantially the terrain of economic ethics. There has never been a volume that poses so directly and intensively the question of the need for and content of professional ethics for economics. The Handbook incorporates the work of leading scholars and practitioners, including academic economists from various theoretical traditions; applied economists, beyond academia, whose work has direct and immense social impact; and philosophers, professional ethicists, and others whose work has addressed the nature of "professionalism" and its implications for ethical practice.

The signals are everywhere that our planet is experiencing significant climate change. It is clear that we need to reduce the emissions of carbon dioxide and other greenhouse gases from our atmosphere if we want to avoid greatly increased risk of

damage from climate change.

Aggressively pursuing a program of emissions abatement or mitigation will show results over a timescale of many decades. How do we actively remove carbon dioxide from the atmosphere to make a bigger difference more quickly? As one of a two-book report, this volume of *Climate Intervention* discusses CDR, the carbon dioxide removal of greenhouse gas emissions from the atmosphere and sequestration of it in perpetuity. *Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration* introduces possible CDR approaches and then discusses them in depth. Land management practices, such as low-till agriculture, reforestation and afforestation, ocean iron fertilization, and land-and-ocean-based accelerated weathering, could amplify the rates of processes that are already occurring as part of the natural

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carbon cycle. Other CDR approaches, such as bioenergy with carbon capture and sequestration, direct air capture and sequestration, and traditional carbon capture and sequestration, seek to capture CO₂ from the atmosphere and dispose of it by pumping it underground at high pressure. This book looks at the pros and cons of these options and estimates possible rates of removal and total amounts that might be removed via these methods. With whatever portfolio of technologies the transition is achieved, eliminating the carbon dioxide emissions from the global energy and transportation systems will pose an enormous technical, economic, and social challenge that will likely take decades of concerted effort to achieve. Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration will help to better understand the potential cost and

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performance of CDR strategies to inform debate and decision making as we work to stabilize and reduce atmospheric concentrations of carbon dioxide.

A Spirituality of Resistance

The Burdens of History

Don't Even Think About It

Culture and AIDS

What We Know about Climate Change

An introduction to the scientific consensus on the human role in global warming.

Introduces long tunnels, including the Laerdal Tunnel, the Chunnel, and the Seikan Tunnel.

A Spirituality of Resistance addresses the challenges of creating a spiritual life in the midst of unprecedented

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environmental crisis. In the end, Gottlieb finds that only through striving to protect the earth and all its inhabitants can one find authentic personal and spiritual peace.

The blueprint for an inspiring regenerative economy that avoids collapse and works for people and the planet. Humanity is in a race with catastrophe. Is the future one of global warming, 65 million migrants fleeing failed states, soaring inequality, and grid-locked politics? Or one of empowered entrepreneurs and innovators building a world that works for everyone? While the specter of

collapse looms large, A Finer Future demonstrates that humanity has a chance - just - to thread the needle of sustainability and build a regenerative economy through a powerful combination of enlightened entrepreneurialism, technology, and innovative policy. The authors - world leaders in business, economics, and sustainability - gather the evidence, outline the principles of a regenerative economy, and detail a policy roadmap to achieving it, including:

- Transforming finance and corporations
- Reimagining energy, agriculture, and the

nature of how we work
Enhancing human well-being
Delivering a world that respects
ecosystems and human
community. Charting the course
to a regenerative economy is the
most important work facing
humanity and A Finer Future
provides the essential blueprint
for business leaders,
entrepreneurs,
environmentalists, politicians,
policymakers, and others
working to create a world that
works for people and the planet.
Advances in Asset Management
and Condition Monitoring
AIDS & Ethics
What Everyone Should Know

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About America's Energy
Revolution
Electric Machines
Powering Forward
Survivability and Traffic
Grooming in WDM Optical
Networks