

Sustainable Energy Dunlap

To Leave a Memory is the 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 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 Jane can't forget or forgive her brother's death. Nor can Andrew's brother Thomas, an arrogant millionaire and a perpetual prick in Andrew's side. Decades later, Lizzy decides to leave. Jane, now a tech guru and 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 apology that will finally atone for his heartbreaking error. But when a second tragedy strikes, each family member faces a difficult choice that no one wants to make.

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, 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 provided, and methods for evaluating the economics of these systems are presented. While the book focuses on the fastest growing, most promising wind and solar technologies, new material on tidal and wave power, small-scale hydroelectric power, geothermal and biomass systems is introduced. Both supply-side and demand-side

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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 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 large-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. 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 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, more emphasis on reactive power as well as real power, more on power converter and inverter electronics, and more material on generator technologies. Realizing that many students, as well as professionals, in this increasingly important field may 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 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 resource for a mixed audience of engineering and other technology-

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focused individuals.

Climate change presents perhaps the most profound challenge ever confronted by human society. This volume is a definitive analysis drawing on the best thinking on questions of how climate change affects human systems, and how societies can, do, and should respond. Key topics covered include the history of the issues, social and political reception of climate science, the denial of that science by individuals and organized interests, the nature of the social disruptions caused by climate change, the economics of those disruptions and possible responses to them, questions of human security and social justice, obligations to future generations, policy instruments for reducing greenhouse gas emissions, and governance at local, regional, national, international, and global levels.

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

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and in many cases to estimate quantities 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 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 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. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The skyrocketing demand for clean, abundant energy has resulted in a need for comprehensive information that can 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 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 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 calculator with integrated reference materials and access to hundreds of additional calculations as add-ons. To learn more, visit dewalt.com/mobilepro. Important Notice: Media content referenced within the

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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 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 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 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 when inquiring into the social acceptance of renewable energy and associated infrastructures. Susana Batel is an environmental psychologist at the University Institute of Lisbon interested in peoples engagement with energy transitions and associated social justice issues. She has published in journals like the Journal of Environmental Psychology, Energy Policy and Energy Research & Social Science, and is co-editor of Papers on Social Representations. David Rudolph is a human geographer at the Technical University of Denmark with an interest in just, inclusive and equitable low-carbon energy transitions. He has published in journals such as Antipode, Environment and Planning C and Energy Research & Social Science.

Have you ever wondered what life would be like with the freedom to Work From Anywhere you want, whenever you want? Do you desire to work independently and/or wish to be your own

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boss someday? If so, and you're finally ready to do more than just dream about it, this helpful book will hopefully motivate you to WAKEUP immediately and make it a reality! Most importantly, it offers essential information that you'll need to know in order to properly proceed AND succeed with working from anywhere! In fact, this could actually be considered more of a trusty hand-guide, one that will continue to provide professional advice you can always relook at and rely on. Whether you want to start your own business, work as a freelancer full-time, or simply want to earn additional income, whatever your goal is, there is a better chance of reaching it with this beneficial book. The first several chapters will inspire and allow you to focus and fertilize your thought process. The later chapters feature in-depth explanations of some potential jobs you can work from anywhere. But, when you begin to think outside of the box, the list of opportunities can be almost endless! After completing the reading of all 160 empowering pages, you can go forward on your quest with confidence while applying everything you've learned so far! Order *Work From Anywhere NOW* - and literally change the way you view your work! *Please realize that this is not intended to be a standalone guide, as the very subject matter inside really IS a work in progress. Not only is working from anywhere a relatively new prospect, but we typically utilize technology to do it. Since innovations are inevitable, we must progress with them and stay up-to-date. Furthermore, it is recommended that you also read *The Four Agreements* and/or similar introductory works for additional information and inspiration!

This book covers the fundamentals of electrical system design commonly found in residential, commercial, and industrial occupancies. The emphasis is on practical, real-world applications, and stresses designing electrical systems in accordance with the National Electrical Code®

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(NEC®). This book leads the reader through topics starting with the basics of electrical system design through more advanced subjects such as voltage drop, short circuit, coordination, and harmonics. For electrical designers and electrical engineers.

For many years, evidence suggested that all solid materials either possessed a 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 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 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 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 carbon are excellent examples of how our understanding of the microstructure of solids has progressed over the years beyond the concepts of traditional crystallography.

Our understanding of subatomic particles developed over many years, although a clear picture of the different particles, their interactions and their inter-relationships only emerged in the latter part of the twentieth century. The first "subatomic particles" to be investigated were those which exhibit readily observable macroscopic behavior, specifically these are the photon, which we observe as light and the electron, which is manifested as electricity. The true nature

of these particles, however, only became clear within the last century or so. The development of the Standard Model provided clarification of the way in which various particles, specifically the hadrons, relate to one another and the way in which their properties are determined by their structure. The final piece, perhaps, of the final model, that is the means by which some particles acquire mass, has just recently been clarified with the observation of the Higgs boson. Since the 1970s it has been known that the measured solar neutrino flux was inconsistent with the flux predicted by solar models. The existence of neutrinos with mass would allow for neutrino flavor oscillations and would provide an explanation for this discrepancy. Only in the past few years, has there been clear experimental evidence that neutrinos have mass. The description of particle structure on the basis of the Standard Model, along with recent discoveries concerning neutrino properties, provides us with a comprehensive picture of the properties of subatomic particles. Part I of the present book provides an overview of the Standard Model of particle physics including an overview of the discovery and properties of the Higgs boson. Part II of the book summarizes the important investigations into the physics of neutrinos and provides an overview of the interpretation of these studies.

Featuring current information and a practical approach, **RENEWABLE ENERGY AND SUSTAINABLE DESIGN** combines common forms of renewable energy with green building practices, offering an exciting and engaging introduction to this field. Focusing on both the theory and practice of producing electrical energy from non-fossil fuel sources, this book evaluates different types of building materials and design options while assessing available forms of renewable energy--including solar, wind, hydro, biomass, tidal and geothermal. By examining the benefits and limitations involved in harnessing each of these renewable

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energies, this book seeks to provide you with an objective and informed viewpoint, with the ultimate purpose of minimizing harmful impacts on individuals, communities, and the environment. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Examines how wind energy projects impact people and their environments.

Climate change 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 there has been significant progress in natural science understanding of climate change, social science analyses have not been as fully developed. *Climate Change and Society* breaks new theoretical and empirical ground by presenting climate change as a thoroughly social phenomenon, embedded in behaviors, institutions, and cultural practices. This collection of essays summarizes existing approaches to understanding the social, economic, political, and cultural dimensions of climate change. From the factors that drive carbon emissions to those which influence societal responses to climate change, the volume provides a comprehensive overview of the social dimensions of climate change. An improved understanding of the complex relationship between climate change and society is essential for modifying ecologically harmful human behaviors and institutional practices, creating just and effective environmental policies, and developing a more sustainable future. *Climate Change and Society* provides a useful tool in efforts to integrate social science research, natural science research, and policymaking regarding climate change 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 standard climate change discourse, and offers a valuable resource

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for students, scholars, and professionals involved in climate change research and policy. ENGINEERING 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 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 be available in the ebook version.

Climate change negotiations have failed the world. Despite more than thirty years of high-level, global talks on climate change, we 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. 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; 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 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.

This book is about environmental defenders and the violence they face while seeking to protect their land and the environment. Between 2002 and 2019, at least two thousand people were

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killed in 57 countries for defending their lands and the environment. Recent policy initiatives and 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 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 communities, corporations, and government authorities, the book highlights the diversity of defenders, the collective character of their struggles, the many drivers 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 examines the violence taking place around different types of development projects, including fossil fuels, agro-industrial, renewable energy, and infrastructure. The volume also examines the violence surrounding conservation projects, including through militarized wildlife protection and surveillance technologies. The book 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 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 defenders and how to help and support them. It will also appeal to students, scholars and practitioners involved in environmental protection, environmental activism, human rights, social movements and development studies.

First Published in 2011. Routledge is an imprint of Taylor & Francis, an informa company.

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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 business profitable. Reprint. 75,000 first printing.

Green European addresses the quest for a better understanding of European type(s) of environmentalism. This monograph focuses on public attitudes and behaviours and the culturally rooted as well as country specific differences. The book addresses the wider issue that many European countries are rendered 'green' or as having an advanced environmental awareness, but the question - 'how green are Green Europeans really', is yet to be answered. The book covers a variety of unique data-driven comparative studies and is divided into three parts: the first addresses perceptions of environmental and technological threats and risks, the second part deals with environmental activism in Europe, the third discusses environmental attitudes, environmental concerns and their imminent link to personal pro-environmental behaviour. The empirical comparative nature of the contributions is enabled by data from the International Social Survey Programme (ISSP).

The first part of this book overviews the physics of lasers and describes some of the more common types of lasers and their applications. Applications of lasers include CD/DVD players, laser printers and fiber optic communication devices.

Part II of this book describes the phenomenon of Bose-Einstein condensation. The experimental techniques used to create a Bose-Einstein condensate provide an interesting and unconventional application of lasers; that is, the cooling and confinement of a dilute gas at very low temperature.

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The transport of electric charge through most materials is well described in terms of their electronic band structure. The present book deals with two cases where the charge transport in a solid is not described by the simple band structure picture of the solid. These cases are related to the phenomena of the quantum Hall effect and superconductivity. Part I of this book deals with the quantum Hall effect, which is a consequence of the behavior of electrons in solids when they are constrained to move in two dimensions. Part II of the present volume describes the behavior of superconductors, where electrons are bound together in Cooper pairs and travel through a material without resistance.

This revised edition is fully updated and continues to provide the best in-depth introduction to renewable energy science. It focuses mainly on renewable energy, but also addresses nonrenewable energy (fossil fuels and nuclear technology). The coverage extends from the basic physics to conservation, economic, and public policy issues, with strong emphasis on explaining how

things work in practice. The authors avoid technical jargon and advanced math, but address fundamental analytical skills with wide application, including: Two brand new chapters giving an introduction to population dynamics and statistical analysis for energy studies Additional self-study problems and answers More worked examples Up-to-date coverage of areas such as hydraulic fracturing, integration of renewable energy to power grid, and cost.

As the time-scales of natural change accelerate and converge with those of society, Routledge Handbook of Climate Change and Society takes the reader into largely uncharted territory in its exploration of anthropogenic climate change. Current material is used to highlight the global impact of this issue, and the necessity for multidisciplinary and global social science research and teaching to address the problem. The book is multidisciplinary and worldwide in scope, with contributors spanning specialisms including agro-forestry, economics, environmentalism, ethics, human geography, international relations, law, politics, psychology, sociology and theology. Their global knowledge is reflected in the content of the text, which encompasses chapters on American, European and Chinese policies, case studies of responses to disasters and of the new technological and lifestyle alternatives that are being adopted, and the negotiations leading up to the Copenhagen conference alongside a preface

assessing its outcomes. Starting with an initial analysis by a leading climatologist, key issues discussed in the text include recent findings of natural scientists, social causation and vulnerability, media and public recognition or scepticism, and the merits and difficulties of actions seeking to mitigate and adapt. This accessible volume utilizes a wealth of case studies, explains technical terms and minimises the use of acronyms associated with the subject, making it an essential text for advanced undergraduates, postgraduate students and researchers in the social sciences.

This three volume compendium begins with a review of our past dependence on fossil fuels 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 major options for carbon-free energy including hydroelectric and solar energy for both thermal applications and the production of electricity, wind energy, 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 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 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 discussed in terms of its applications to residential heating, community-based storage, solar ponds, and thermal storage for grid-integrated energy systems. The third volume considers various methods of energy storage that make use of electrochemical reactions, electric and magnetic fields, and chemical reactions. It outlines multiple types of batteries as well as supercapacitors, pseudo-capacitors, and hybrid capacitors. It ends with techniques in chemical energy storage and the use of hydrogen, methane, methanol, and ammonia as energy carriers.

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

The Sixth Edition of Residential Energy has been updated the content to reflect the

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evolving best practices for the diagnosis, retrofit, maintenance, and energy management of residential buildings. Written with a "simple measures are the most effective" approach, have strived to improve this edition as readers strive to understand and improve the buildings with which they work.

The purpose of this textbook is to provide a well-rounded working knowledge of both climate change and environmental sustainability for a wide range of students. Students will learn core concepts and methods to analyze energy and environmental impacts; will understand what is changing the earth's climate, and what that means for life on earth now and in the future. They will also have a firm understanding of what energy is and how it can be used. This text intends to develop working knowledge of these topics, with both technical and social implications. Students will find in one volume the integration and careful treatment of climate, energy, and sustainability.

Wind energy is often portrayed as a panacea for the environmental and political ills brought on by an overreliance on fossil fuels, 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 relationship between the regions that produce this energy and those that consume it. Jaume Franquesa considers Spain, a country where wind now constitutes the main source of energy production. In particular, he looks at the Southern Catalonia region, which has traditionally been a source of energy production 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 economic periphery as the power they produce is controlled by centralized, international Spanish corporations. Local resistance to wind farm installation in 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, without careful attention, renewable energy production can reinforce patterns of exploitation even as it promises a fair and hopeful future.

This book reviews the past and present energy use of society and its future needs. A breakdown of current energy sources shows that approximately 80% of the world's primary energy comes from fossil fuels. The book provides an assessment of the needs to change the way in which energy is produced and utilized. The reasons for change fall into two broad categories; diminishing resources and environmental impact. The Hubbert model is described as a means of projecting availability of fossil fuel energy resources in the future. The environmental impact of fossil fuel use is described, with particular emphasis on global climate change. The major options for carbon-free energy are presented. These options include hydroelectric energy and solar energy for both thermal applications and the production of electricity, wind energy, and biofuels.

Renewable energy options that range from residential wind turbines and photovoltaics for electricity and solar thermal heating systems to grid scale facilities, such as off-shore wind farms and hydroelectric installations, are discussed. The production of

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biofuels as a replacement for fossil fuels used for transportation is also presented. The book also provides evidence for the need to develop energy storage technologies. Energy storage is essential for most forms of renewable energy because the thermal or electrical energy produced by such sources is generally not available when it is needed, nor is it sufficiently portable for transportation applications.

Everyone wants to make the world a better place, but how and where do you start? Leo Tolstoy, a Russian novelist and philosopher, once said, “Everyone thinks of changing the world, but no one thinks of changing oneself.” Moaveni’s ENERGY, ENVIRONMENT, AND SUSTAINABILITY helps readers understand what energy, environment and sustainability issues mean and why they are important considerations today. Increasingly, because of worldwide socioeconomic trends, environmental concerns, and earth’s finite resources, more is expected of each individual. The book helps students to understand the connections among earth’s finite resources and the environmental, social, ethical, technical, and economical factors impacted by daily decisions. This book teaches students how to evaluate these important issues and make environmentally sound decisions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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,

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2nd Edition. Individual chapters thoroughly investigate each energy approach as the book covers both current energy production and future strategies. The 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 multidisciplinary approach to solving energy problems. Quantitative end-of-chapter problems emphasize analyzing information, correlating data from various sources, and interpreting graphical data and interpolate values. Readers see real problems in producing and using energy as they realize that while exact calculations are important, a broad-based analysis is often most appropriate. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Coming of Age at the End of Nature explores a new kind of environmental writing. This powerful anthology gathers the passionate voices of young writers who have grown up in an environmentally damaged and compromised world. Each contributor has come of age since Bill McKibben foretold the doom of humanity's ancient relationship with a pristine earth in his prescient 1988 warning of climate change, *The End of Nature*. What happens to individuals and societies when their most fundamental cultural, historical, and ecological bonds weaken—or snap? In *Coming of Age at the End of Nature*, insightful millennials express their anger and love, dreams and fears, and sources of resilience for living and thriving on our shifting planet. Twenty-two essays explore wide-ranging themes that are paramount to young generations but that resonate with everyone, including redefining materialism and environmental justice, assessing the risk and promise of technology, and celebrating place anywhere from a wild

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Atlantic island to the Arizona desert, to Baltimore and Bangkok. The contributors speak with authority on problems facing us all, whether railing against the errors of past generations, reveling in their own adaptability, or insisting on a collective responsibility to do better. This book addresses the nuts and bolts of planning and preserving natural assets at a variety of scales--from dense urban environments to scenic rural landscapes. A practical guide to creating effective and well-crafted plans and then implementing them, the book presents a six-step process developed and field-tested by the Green Infrastructure Center in Charlottesville, Virginia. Well-organized chapters explain how each step, from setting goals to implementing opportunities, can be applied to a variety of scenarios, customizable to the reader's target geographical location.

Where - When - Who - Freedom - Knowledge - God - Reality - Experience - Consciousness - Cosmos - Death - Meaning - Ethics - Values.

An account of German environmentalism that shows the influence of the past on today's environmental decisions. Germany enjoys an enviably green reputation. Environmentalists in other countries applaud its strict environmental laws, its world-class green technology firms, its phase-out of nuclear power, and its influential Green Party. Germans are proud of these achievements, and environmentalism has become part of the German national identity. In *The Greenest Nation?* Frank Uekötter offers an overview of the evolution of German environmentalism since the late nineteenth century. He discusses, among other things, early efforts at nature protection and urban sanitation, the Nazi experience, and civic mobilization in the postwar years. He shows that much of Germany's green reputation rests on accomplishments of the 1980s, and emphasizes the mutually supportive roles of environmental

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nongovernmental organizations, corporations, and the state. Uekötter looks at environmentalism in terms of civic activism, government policy, and culture and life, eschewing the usual focus on politics, prophets, and NGOs. He also views German environmentalism in an international context, tracing transnational networks of environmental issues and actions and discussing German achievements in relation to global trends. Bringing his discussion up to the present, he shows the influence of the past on today's environmental decisions. As environmentalism is wrestling with the challenges of the twenty-first century, Germany could provide a laboratory for the rest of the world.

Undoing the Silence offers 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 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 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 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 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 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 and her "You can

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do it!" approach makes social-action writing achievable for everyone.

Multiple 'green transformations' are required if humanity is to live sustainably on planet Earth. Recalling past transformations, this book examines what makes the current challenge different, and especially urgent. It examines how green transformations must take place in the context of the particular moments of capitalist development, and in relation to particular alliances. The role of the state is emphasised, both in terms of the type of incentives required to make green transformations politically feasible and the way states must take a developmental role in financing innovation and technology for green transformations. The book also highlights the role of citizens, as innovators, entrepreneurs, green consumers and members of social movements. Green transformations must be both 'top-down', involving elite alliances between states and business, but also 'bottom up', pushed by grassroots innovators and entrepreneurs, and part of wider mobilisations among civil society. The chapters in the book draw on international examples to emphasise how contexts matter in shaping pathways to sustainability. Written by experts in the field, this book will be of great interest to researchers and students in environmental studies, international relations, political science, development studies, geography and anthropology, as well as policymakers and practitioners concerned with sustainability.

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