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A First course in Renewable Energy IAP 2009
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Description This is an engineering
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Retaining the successful format of the first edition and building on its solid grounding in the principles of renewable energy resources, this second edition has been revised in line with the latest advances in the field to include new technologies and an assessment of their impact. Considering each technology in depth from both scientific and environmental perspectives, it covers solar energy, photovoltaic, wind, wave, tidal and hydro power, biofuels, geothermals and more, as well as featuring a new chapter on

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institutional factors, including economics. In addition, extra worked problems and case studies are also provided to help readers put theory into practice. Reading and web-based material for further study is indicated after each chapter, making this text ideal, not only for practitioners, but also for students on multi-disciplinary masters degrees in science and engineering as well specialist modules in science and engineering first degrees.

In the years between the first and this second edition, renewable energy has come of

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age; it makes good sense, good government and good business. This book considers the unchanging principles of renewable energy technologies alongside modern application and case studies. In this second edition, the presentation of the fundamentals has been improved throughout, and chapters on economics and institutional factors have been added. Likewise, sections on environmental impact have been added to each technology chapter. Renewable Energy Resources supports multi-disciplinary masters degrees in science and engineering, and also specialist modules in science and engineering first degrees, as

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The second edition of this standard text
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The Updated Third Edition Provides a Systems
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Production and Contains Analytical Tools for the Design of Renewable Microgrids The revised third edition of Design of Smart Power Grid Renewable Energy Systems integrates three areas of electrical engineering: power systems, power electronics, and electric energy conversion systems. The book also addresses the fundamental design of wind and photovoltaic (PV) energy microgrids as part of smart-bulk power-grid systems. In order to demystify the complexity of the integrated approach, the author first presents the basic concepts, and then explores a simulation test bed in

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MATLAB® in order to use these concepts to solve a basic problem in the development of smart grid energy system. Each chapter offers a problem of integration and describes why it is important. Then the mathematical model of the problem is formulated, and the solution steps are outlined. This step is followed by developing a MATLAB® simulation test bed. This important book: Reviews the basic principles underlying power systems Explores topics including: AC/DC rectifiers, DC/AC inverters, DC/DC converters, and pulse width modulation (PWM) methods Describes the fundamental concepts in the design and

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Supplementary material includes a solutions manual and PowerPoint presentations for instructors Written for undergraduate and graduate students in electric power systems engineering, researchers, and industry professionals, the revised third edition of Design of Smart Power Grid Renewable Energy Systems is a guide to the fundamental concepts of power grid integration on microgrids of green energy sources.

Integrating intermittent renewable energy sources like wind into electricity systems

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must be one of the most misunderstood issues in energy policy. This edited volume brings together a unique series of authoritative articles on the topic. There should be no excuse for misunderstanding from now on. JIM SKEA, RESEARCH DIRECTOR, UK ENERGY RESEARCH CENTRE The future design and operation of electric power systems with large injections of renewable energy generation is the subject of much debate, and some misunderstanding. This timely book, from a number of authors with expertise in the area, makes an important contribution to our understanding of this topic. NICK JENKINS, PROFESSOR OF

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ENERGY SYSTEMS, UNIVERSITY OF MANCHESTER We know the future will be different from the past. This book predicts how large proportions of renewable energy can be incorporated into electricity grids, without harm from the natural variability of these supplies. The chapter authors have different approaches and vision, yet the overall message is positive. Not only can we move to dominant use of renewable electricity, but we can do so utilizing many technological and efficiency improvements, with consumers benefiting from clean electricity at acceptable cost. PROFESSOR JOHN TWIDELL,

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GENERAL EDITOR, WIND ENGINEERING 'Anyone interested in renewable electricity will find this book an important reference. It answers many of the questions so often raised in public debates' Sherkin Comment Can renewable energy provide reliable power? Will it need extensive backup? The energy available from wind, waves, tides and the sun varies in ways that may not match variations in energy demand. Assimilating these fluctuations can affect the operation and economics of electricity networks, markets and the output of other forms of generation. Is this a significant problem, or can these new sources

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be integrated into the grid system without the need for extensive backup or energy storage capacity? This book examines the significance of the issue of variability of renewable electricity supplies, and presents technical and operational solutions to the problem of reconciling the differing patterns of supply and demand. Its chapters are authored by leading experts in the field, who aim to explain and quantify the impacts of variability in renewable energy, and in doing so, dispel many of the myths and misunderstandings surrounding the topic.

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Explanatory text that treats the complete fundamentals of energy and current energy resources, technologies developments, solutions to energy issues and new concepts ranging from fossil fuel to solar energy, biomass energy, wind energy, ocean energy, geothermal energy, hydrogen energy, fuel cells, thermo-electric systems, nuclear energy and nanotechnology concepts to generate clean energy. The theoretical aspects of various energy conversion technologies, and design practices in light of national and international perspectives are discussed with educational examples.

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Every technique is explained in detail and every chapter is concluded with a reference section, recommended reading and a number of questions. Intended for university students with various backgrounds, who are involved in energy science and engineering (chemistry, physics, environmental sciences, earth sciences, petroleum, mining and mechanical engineering). Recommended for professionals seeking an introduction to the subject.

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

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provides a framework for assessing policy options.

Society's use of energy and technology is at heart of many of the most significant environmental problems of recent years, including problems of health, global warming and acid rain. Use of technology has been a major cause of environmental problems but new technology offers many solutions. Energy, Society and Environment is an introduction to energy and energy use, and the interactions between technology, society and the environment. The book is clearly structured

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to examine: * key environmental issues, and the harmful impacts of energy use * new technological solutions to environmental problems * implementation of possible solutions * implications for society in developing a sustainable approach to energy use. Social processes and strategic solutions to problems are located within a clear, technological context with topical case studies and informative diagrams illustrating key issues. Energy, Society and Environment examines the potential and limits of technical solutions to environmental problems and suggests the social, economic and

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This second edition of Principles of Solar Engineering covers the latest developments in a broad range of topics of interest to students and professionals interested in solar energy applications. With the scientific fundamentals included, the book covers important areas such as heating and cooling, passive solar applications, detoxification and biomass energy conversion. This comprehensive textbook provides examples of methods of solar engineering from around

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the world and includes examples, solutions and data applicable to international solar energy issues. A solutions manual is available to qualified instructors.

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