

**EASWARI ENGINEERING COLLEGE
RAMAPURAM – 600089, CHENNAI
DEPARTMENT OF MECHANICAL ENGINEERING**

SEM/YEAR: V/III

Course Code: OR0551

RENEWABLE ENERGY SOURCES LECTURE NOTES

Course Outcomes (COs):

After the completion of the course, the student will be able to	
CO.1	To Understand the physics of solar radiation.
CO.2	Ability to classify the solar energy collectors and methodologies of storing solar energy.
CO.3	To gain knowledge in applying solar energy in a useful way
CO.4	To gain knowledge in wind energy and biomass with its economic aspects.
CO.5	To obtain knowledge in capturing and applying other forms of energy sources like wind, biogas and geothermal energies.

Lecture Notes On Renewable Energy Sources

Ahmad Vasel, David S-K. Ting



Lecture Notes On Renewable Energy Sources

Renewable Energy Based Solutions Tanay Sidki Uyar,Nader Javani,2022-11-01 This book discusses the main renewable energy resources along with the current challenges that make it difficult to achieve 100% decarbonized energy sources. It presents the perspectives of international expert authors in the field, giving readers a multi-dimensional view of the subject. The book explores numerous approaches for a smooth transition from fossil fuels to renewable energies, including those based on engineering methods as well as policies, strategies, and social perceptions. It presents several case studies and examples from industry, showcasing the potential role of renewable sources and their challenges. The inclusion of both established methods and cutting-edge developments will make this book of interest to academics, industry professionals, policy makers, and graduate students alike.

Smart Grid and Renewable Energy Systems Mohan Lal Kolhe,

Renewable Energy Governance Evanthie Michalena,Jeremy Maxwell Hills,2013-11-29 This book focuses on Renewable Energy (RE) governance, the institutions, plans, policies, and stakeholders that are involved in RE implementation and the complexities and challenges associated with this much-discussed energy area. Whilst RE technologies have advanced and become cheaper, governance schemes rarely support those technologies in an efficient and cost-effective way. To illustrate the problem, global case studies delicately demonstrate successes and failures of renewable energy governance. RE here is considered from a number of perspectives: as a regional geopolitical agent, as a tool to meet national RE targets, and as a promoter of local development. The book considers daring insights on RE transitions, governmental policies, as well as financial tools such as Feed-in Tariffs, along with their inefficiencies and costs. This comprehensive probing of RE concludes with a treatment of what we call the Mega-Question: who is benefitting the most from RE, and how society can get the best deal. After reading this book, the reader will have been in contact with all aspects of RE governance and be closer to the pulse of RE mechanisms. The reader should also be able to contribute more critically to the dialogue about RE rather than just reinforce the well-worn adage that RE is a good thing to happen.

Renewable Power for Sustainable Growth Atif Iqbal,Hasmat Malik,Ahmed Riyaz,Kouzou Abdellah,Sertac Bayhan,2021-04-20 This book is a collection of papers presented at the International Conference on Renewable Power (ICRP 2020) held during 13-14 July 2020 in Rajouri, Jammu, India. The book covers different topics of renewable energy sources in modern power systems. The book focuses on smart grid technologies and applications, renewable power systems including solar PV, solar thermal, wind power generation, transmission and distribution, transportation electrification, and automotive technologies, power electronics and applications in renewable power systems, energy management and control systems, energy storage in modern power systems, active distribution networks, artificial intelligence in renewable power systems, and cyber-physical systems and Internet of Things in smart grid and renewable power.

Energy Return on Investment Charles A.S. Hall,2016-11-29 This authoritative but highly accessible book presents the reader with a powerful framework for understanding the critical role of the energy return on investment EROI in the survival and well being of individuals ecosystems businesses economies and nations Growth and development are fundamental and ubiquitous processes at all scales from individuals to food crops to national economies While we are all familiar with the concepts of economic growth and living standards as measured by gross domestic product GDP we often take for granted the energy use that underpins GDP and our expectations for year on year growth In this book you will learn how these measures of progress are completely dependent on the balance that can be achieved between energy costs inputs and gains Nothing is made or moved without an energy surplus and it is the EROI of available energy sources more than any other single factor that determines the shape of civilization Nearly all politics and economics assume that policy and market forces are the levers upon which future outcomes will hinge However this book presents many examples of historical and current events that can be explained much more clearly from an energetic perspective In addition a future scenario is developed that gives a central place to EROI in assessing the potential of governmental and private initiatives to substitute so called renewable energy sources for diminishing stocks of fossil fuels When cheap fossil fuels are no longer available in the abundance needed to mask economic problems and power business as usual it will be EROI more than the plethora of green technologies that creates the boundary conditions for a sustainable future

Advances in Sustainable Energy Ahmad Vasel,David S-K. Ting,2019-03-29 This book reveals key challenges to ensuring the secure and sustainable production and use of energy resources and provides corresponding solutions It discusses the latest advances in renewable energy generation and includes studies on climate change and social sustainability In turn the book goes beyond theory and describes practical challenges and solutions associated with energy and sustainability In particular it addresses renewable energy conversion technologies transmission storage and consumption green buildings and the green economy and waste and recycling The book presents the current state of knowledge on renewable energy and sustainability supported by detailed examples and case studies making it not only a cutting edge source of information for experts and researchers in the field but also an educational tool for related undergraduate and graduate courses

Accelerating the Transition to a 100% Renewable Energy Era Tanay Sıdkı Uyar,2020-06-05 This book discusses renewable energy systems and applications and demonstrates how an accelerated transition to 100% renewable energy can be achieved It examines the systems from a thermodynamic perspective focusing on the irreversible aspects of the current energy system and highlighting the solutions developed to date Presenting global research and developments this book is intended for those working within the field of renewable energy research and policy who are interested in learning how they can contribute to the transition from fossil fuels to renewable resources

RENEWABLE ENERGY SYSTEMS Lecture Notes Seyhan Uygur Onbasioglu,2014-12-02 RENEWABLE ENERGY SYSTEMS Lecture NotesBy Seyhan UYGUR Onbasioglu

The Physics of Renewable Energy Martin Stutzmann, Christoph Csoklich, 2023-01-01 This book provides a concise overview of the physical basics of different forms of renewable energy water waves wind solar thermal geothermal biofuels focusing on the physical limits for the efficiency and energy densities of different current technologies It also discusses relevant aspects of materials science physical chemistry and biophysics The book is based on the lecture notes of a course taught at TU M nchen to undergraduate and graduate students of Applied Physics and related engineering disciplines It provides material that can be taught in a one semester course with 4 hours per week and includes a self test section to enable students to check their understanding

Advances in Energy Technology Ramesh C. Bansal, Anshul Agarwal, Vinay Kumar Jadoun, 2021-07-27 This book presents select proceedings of International Conference on Energy Material Sciences and Mechanical Engineering EMSME 2020 held at National Institute of Technology Delhi Various topics covered in this book include clean materials solar energy systems wind energy systems power optimization grid integration of renewable energy smart energy storage technologies artificial intelligence in solar and wind system analysis of clean energy material in environment converter topology modelling and simulation This book will be useful for researchers and professionals working in the areas of solar material science electrical engineering and energy technologies

Advances in Sustainable Energy Ahmad Vassel, David S-K. Ting, 2019 This book reveals key challenges to ensuring the secure and sustainable production and use of energy resources and provides corresponding solutions It discusses the latest advances in renewable energy generation and includes studies on climate change and social sustainability In turn the book goes beyond theory and describes practical challenges and solutions associated with energy and sustainability In particular it addresses renewable energy conversion technologies transmission storage and consumption green buildings and the green economy and waste and recycling The book presents the current state of knowledge on renewable energy and sustainability supported by detailed examples and case studies making it not only a cutting edge source of information for experts and researchers in the field but also an educational tool for related undergraduate and graduate courses

Advances in Managing Energy and Climate Risks Stéphane Goutte, Khaled Guesmi, Raphaël Homayoun Boroumand, Thomas Porcher, 2021-04-21 This book presents research related to energy and environmental technologies in the context of market liberalization and global warming It focuses on the development and efficient use of alternative energy sources implementation of sustainable energy policies power generation and energy finance *Advances in Managing Energy and Climate Risks* provides readers with the necessary information to use energy sources more efficiently discover cleaner energy sources and their applications and urge consumers and producers to make changes to reach a carbon neutral economy through financial technological regulatory and tax incentives

The Geopolitics of Renewables Daniel Scholten,2018-01-11 Renewables are a game changer for interstate energy relations Their abundance and intermittency possibilities for decentral generation and use of rare earth materials and generally electric nature of transportation make them very different from fossil fuels What do these geographic and technical characteristics of renewable energy systems imply for infrastructure topology and operations business models and energy markets What are the consequences for the strategic realities and policy considerations of producer consumer and transit countries and energy related patterns of cooperation and conflict between them Who are the winners and losers The Geopolitics of Renewables is the first in depth exploration of the implications for interstate energy relations of a transition towards renewable energy Fifteen international scholars combine insights from several disciplines international relations geopolitics energy security renewable energy technology economics sustainability transitions and energy policy to establish a comprehensive overview and understanding of the emerging energy game Focus is on contemporary developments and how they may shape the coming decades on three levels of analysis The emerging global energy game winners and losers Regional and bilateral energy relations of established and rising powers Infrastructure developments and governance responses The book is recommended for academics and policy makers It offers a novel analytical framework that moves from geography and technology to economics and politics to investigate the geopolitical implications of renewable energy and provides practical illustrations and policy recommendations related to specific countries and regions such as the US EU China India OPEC and Russia

Advances in Renewable Energy and Sustainable Environment Lillie Dewan,Ramesh C. Bansal,Ujjwal Kumar Kalla,2020-11-04 This book comprises the select peer reviewed proceedings of the National Conference on Renewable Energy and Sustainable Environment NCRESE 2019 The book brings together the latest developments in harvesting storing and optimizing alternate and renewable energy resources It covers latest developments in green energy technologies as well as smart grids and their applications towards a sustainable environment The book can be useful for beginners academicians entrepreneurs and professionals interested in renewable energy technologies and sustainable environment practices

Renewable Energy Utilization Using Underground Energy Systems Paweł Ochoń,2021-06-25 This book discusses heat transfer in underground energy systems It covers a wide range of important and practical topics including the modeling and optimization of underground power cable systems modeling of thermal energy storage systems utilizing waste heat from PV panels cooling Modeling of PV pannels with cooling While the performance of energy systems which utilize heat transfer in the ground is not yet fully understood this book attempts to make sense of them It provides mathematical modeling fundamentals as well as experimental investigation for underground energy systems The book shows detailed examples with solution procedures The solutions are based on the Finite Element Method and the Finite Volume Method The book allows the reader to perform a detailed design of various underground energy systems as well as enables them to study the economic aspects and energy efficiency of underground energy systems Therefore this text is of interest to researchers students and lecturers alike

Latest Trends in Renewable Energy Technologies Shelly Vadhera,Bhimrao S. Umre,Akhtar Kalam,2021-07-01 This book presents select proceedings of the National Conference on Renewable Energy and Sustainable Environment NCRESE 2020 and examines a range of reliable energy efficient harvesting technologies their applications and utilization of available alternate energy resources The topics covered include alternate energy technologies smart grid topologies and their relevant issues solar thermal and bio energy systems electric vehicles and energy storage systems and its control issues The book also discusses various properties and performance attributes of advance renewable energy techniques and impact on environmental sustainability The book will be useful for researchers and professionals working in the areas of energy and sustainable environment and the allied fields

WIND ELECTRICAL SYSTEMS S. N. Bhadra,D. Kastha,Soumitro Banerjee,2005-11-17 Wind Electrical Systems provides an integrated and comprehensive treatment of wind energy conversion without assuming any background of the subject Beginning with the basics of wind energy the book goes on to discuss conversion of wind energy into electrical energy wind energy integration with the local grid stand alone generation and consumption and variable speed wind generators The book ends with a discussion of hybrid power systems where wind energy is integrated with another energy source such as solar energy or diesel generators to provide reliable power With its wide inter disciplinary coverage the book would serve as an indispensable text for students of electrical mechanical and energy engineering as well as practising engineers **BOOK JACKET**

Geothermal Energy and Society Adele Manzella,Agnes Allansdottir,Anna Pellizzone,2018-07-23 This book addresses the societal aspects of harnessing geothermal resources for different uses such as power production heating and cooling It introduces a theoretical framework for a social scientific approach to the field and presents a preliminary collection of empirical case studies on geothermal energy and society from across the world By providing a conceptual and methodological framework to the study of geothermal energy and societies it brings together information and analyses in the field that to date have been sparse and fragmented The contributors explore the diverse aspects of the relationship between the harnessing of geothermal resources and the societies and local communities in which these developments take place After introducing geothermal technologies renewable energy concepts as well as their social and policy context and the regulative and environmental aspects of geothermal energy the book analyzes and discusses twelve global case studies and compares the social engagement tools applied with those used in other sectors Of interest to researchers from a range of disciplines who wish to explore the issues surrounding energy and society it is also a valuable resource for geothermal experts and postgraduate students wish to study the field in greater detail

Prediction Techniques for Renewable Energy Generation and Load Demand Forecasting Anuradha Tomar,Prerna Gaur,Xiaolong Jin,2024-01-21 This book provides an introduction to forecasting methods for renewable energy sources integrated with existing grid It consists of two sections the first one is on the generation side forecasting methods while the second section deals with the different ways of load forecasting It broadly includes artificial intelligence machine learning hybrid techniques and other state of the art techniques for renewable energy and load predictions The book reflects the state of the art in distributed generation system and future microgrids and covers theory algorithms simulations and case studies It offers invaluable insights through this valuable resource to students and researchers working in the fields of renewable energy integration of renewable energy with existing grid and electrical distribution network

Renewable Energy Crash Course Eklas Hossain,Slobodan Petrovic,2021-06-12 This book is a concise reader friendly introductory guide to understanding renewable energy technologies By using simplified classroom tested methods developed while teaching the subject to engineering students the authors explain in simple language an otherwise complex subject in terms that enable readers to gain a rapid fundamental understanding of renewable energy including basic principles the different types energy storage grid integration and economies This powerful tutorial is a great resource for students engineers technicians analysts investors and other busy professionals who need to quickly acquire a solid understanding of the science of renewable energy technology

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