

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

**Seyed Sattar Emamian, Mokhtar  
Awang, Farazila Yusof**



## **Lecture Notes On Renewable Energy Sources:**

**Future Power Network and Smart Energy Systems, Volume 1** Sathans Suhag, Tripta Thakur, Sukumar Mishra, 2025-12-16 This book features high quality peer reviewed papers from the International Conference on Future Power Network and Smart Energy Systems Issues and Challenges FPNSES 2023 Organized by the Department of Electrical Engineering at the National Institute of Technology Kurukshetra it includes contributions from academicians technologists entrepreneurs and research scholars The content is designed to benefit engineers students and researchers working in the fields of power networks and smart energy systems

**Smart Electrical and Mechanical Systems** Rakesh Sehgal, Neeraj Gupta, Anuradha Tomar, Mukund Dutt Sharma, Vigna Kumaran, 2022-06-22 Smart Electrical and Mechanical Systems An Application of Artificial Intelligence and Machine Learning is an international contributed work with the most up to date fundamentals and conventional methods used in smart electrical and mechanical systems Detailing methods and procedures for the application of ML and AI it is supported with illustrations of the systems process diagrams visuals of the systems and or their components and supportive data and results leading to the benefits and challenges of the relevant applications The multidisciplinary theme of the book will help researchers build a synergy between electrical and mechanical engineering systems The book guides readers on not only how to effectively solve problems but also provide high accuracy needed for successful implementation Interdisciplinary in nature the book caters to the needs of the electrical and mechanical engineering industry by offering details on the application of AI and ML in robotics design and manufacturing image processing power system operation and forecasting with suitable examples Includes significant case studies related to application of Artificial Intelligence and Machine Learning in Energy and Power Mechanical Design and Manufacturing Contains supporting illustrations and tables along with a valuable set of references at the end of each chapter Provides original state of the art research material written by international and national respected contributors

*Proceedings of 3rd International Sustainable Buildings Symposium (ISBS 2017)* Seyhan Firat, John Kinuthia, Abid Abu-Tair, 2018-03-30 This book describes the latest advances innovations and applications in the field of building design environmental engineering and sustainability as presented by leading international researchers engineers architects and urban planners at the 3rd International Sustainable Buildings Symposium ISBS held in Dubai UAE from 15 to 17 March 2017 It covers highly diverse topics including smart cities sustainable building and construction design sustainable urban planning infrastructure development structural resilience under natural hazards water and waste management energy efficiency climate change impacts life cycle assessment environmental policies and strengthening and rehabilitation of structures The contributions amply demonstrate that sustainable building design is key to protecting and preserving natural resources economic growth cultural heritage and public health The contributions were selected by means of a rigorous peer review process and highlight many exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different



opportunities for energy system specialists Collects the real world experiences of global experts Enables practical implementation of artificial intelligence strategies that support renewable energy integration across energy systems markets and grids

**Effects of Using a Layered Curriculum Format of Instruction in a High School Environmental Science Energy Unit** Anne Jeannette LaSovage,2006

**Sustainable Energy** Seung Bok Choi,Fauziah Shahul Hamid,Li Yuan Han,2014-02-06 Selected peer reviewed papers from the 2013 2nd International Conference on Sustainable Energy and Environmental Engineering ICSEEE 2013 28 29 December 2013 Shenzhen China

*Course Notes* ,1992

**Energy for Rural and Island Communities, III** John Twidell,Fiona Riddoch,Bill Grainger,1984 V 1 Strategy and action Community energy Biomass and ecosystems Wind energy Hydro solar and building Development and planning v 2 Future strategy and planning Wind power Have power Hydro and total flow Biofuels Solar energy higher latitudes Solar energy tropical Photovoltaic v 3 Energy and development Wind energy Photovoltaic systems Solar energy and building Have energy Hidro power Biofuels Geothermal and otec Transport Energy act worksho

*Abridged Report with Resolutions* WMO Executive Committee,1980

Geothermal Training in Iceland ,2008

**Serials in the British Library** ,2008

**Lectures on Geothermal Resources and Development in China** UNU Geothermal Training Programme (Iceland).,1992

**Energy Supply and Pipeline Transportation** Mo Mohitpour,2008 This timely book focuses on the economic and global issues pertaining to delivery of energy resources particularly fossil fuels such as oil gas and coal The author provides a wealth of data and graphical material based on his many years of research in the energy supply and transportation field The book covers four major topics Energy Sources and Supplies Market Demand by Region Energy Transportation Modes Issues and Pipeline Transportation BOOK JACKET

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