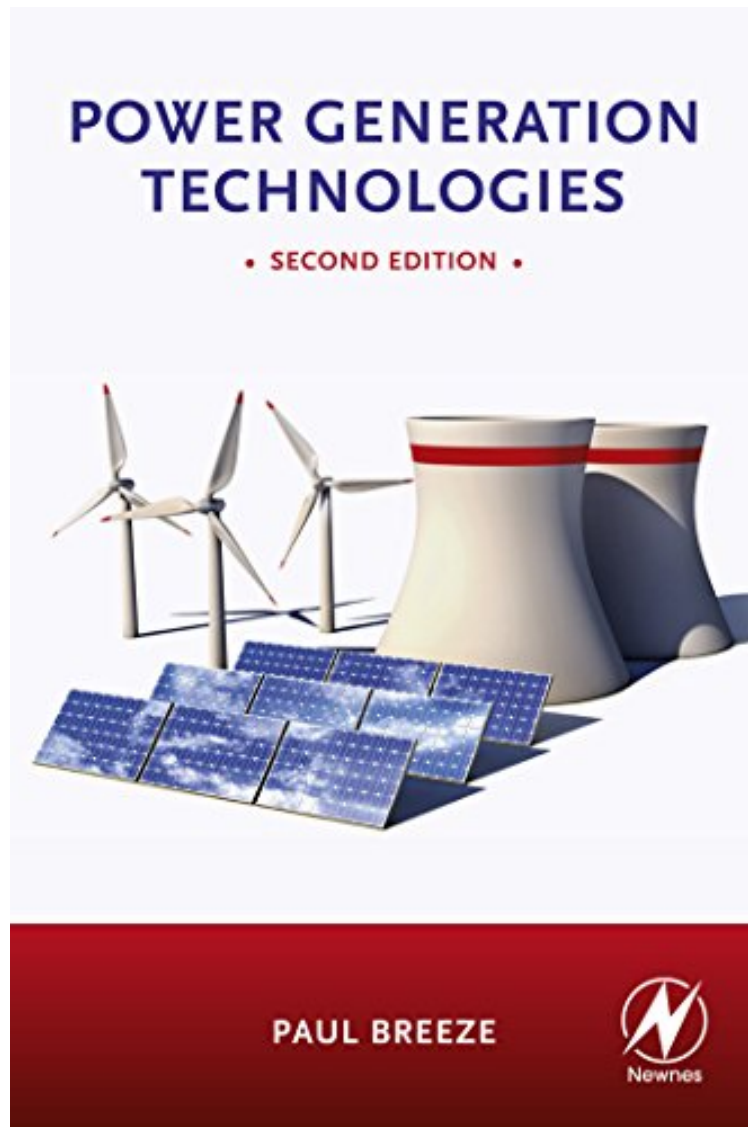


Power Generation Technologies

Paul Breeze

*DOC | *audiobook | ebooks | Download PDF | ePub*



DOWNLOAD



READ ONLINE

#2043294 in eBooks 2014-03-24 2014-03-24 File Name: B00L0ZUX4C | File size: 63.Mb

Paul Breeze : Power Generation Technologies before purchasing it in order to gage whether or not it would be worth my time, and all praised Power Generation Technologies:

0 of 0 people found the following review helpful. I am pretty familiar with fossilBy B MooreI was looking for a book to brush up on the different types of power generations technologies. I am pretty familiar with fossil, but wanted to learn more about renewable, wind, solar, tidal and batteries. This book pretty much fit the bill. It is great information for those who know little to nothing about the way power is generated and the different technologies used to power our lives.0 of 0 people found the following review helpful. An Excellent and Comprehensive Introduction to the TopicBy Salman MA very good, unbiased, and well-written book on power plant technologies, with the right mix of high-level

overview and detail discussions. The new edition of the book has updated material on different generation technologies and provides a very good introduction to the topic. Suitable for graduate students in electrical engineering, professionals, and anyone who is in general interested in knowing more about conventional as well as renewable generation. Highly recommended. 1 of 1 people found the following review helpful. Good Introduction. By Luis Mansilla This is a 288 pages book, so this book does not go into details. And that is exactly what you found here, an introduction to every form of power generation in use or known today, good explanations about the technology behind, what are their risks and costs. I would certainly recommend this book, especially to those who believe that with only renewable and "clean" energy, the world and its almost 7 billions souls can be supplied in a cost-efficient manner, to those who still believe in myths and legends or simply to those who under their ignorance still believe that radioactive waste can cause a nuclear explosion. These are the facts and the hard true is that, no matter what, coal, gas, oil and even uranium will be consumed and depleted from earth. To think otherwise is to not know about energy and to deny reality. I hope we can find a good substitute, but what we know today is that to get energy you need energy. There is not such thing as free energy, nothing is free even in life.

The new edition of *Power Generation Technologies* is a concise and readable guide that provides an introduction to the full spectrum of currently available power generation options, from traditional fossil fuels and the better established alternatives such as wind and solar power, to emerging renewables such as biomass and geothermal energy. Technology solutions such as combined heat and power and distributed generation are also explored. However, this book is more than just an account of the technologies; for each method the author explores the economic and environmental costs and risk factors. Each technology is covered using the same basic criteria so that comparisons between technologies can be made more easily. Those involved in planning and delivering energy; including engineers, managers and policy makers; will find in this book a guide through the minefield of maintaining a reliable power supply, meeting targets on greenhouse gas emissions, and addressing economic and social objectives. Provides a unique comparison of a wide range of power generation technologies from oil, coal, nuclear and natural gas, to geothermal, wind, solar, and bioenergy. Hundreds of diagrams demystify how each technology functions in practice. Evaluates the economic and environmental viability of each power generation system covered. New chapters covering fast-advancing renewable and alternative power sources such as municipal waste and concentrating solar plants. Fresh focus the evolution of traditional technologies such as natural gas and "clean coal". Expanded coverage of distributed power generation and CHP (combined heat and power) technologies.

"The author does an excellent job of explaining how the different technologies work, including an objective view of their pros and cons. Provides an excellent description of the major power generation technologies used in the world today...it provides the reader with a solid, basic understanding of how these technologies work and where they are headed. I recommend this well-organized book to anyone wishing to quickly gain a broad understanding of the many power plant technologies of the 21st century." --Chuck Kutscher, National Renewable Energy Laboratory

"This book on power generation technologies provides a concise and quick read describing a full range of various power generation technologies available today...The author provides good technical descriptions of the fundamental operating principles of each power generation technique, variants of the basic technique, such as how various types of fuel cells operate, their efficiency, comparison to competing technologies, environmental and cost considerations...Anyone involved in planning and delivering energy, or those interested in energy technologies, will find this book very useful for quickly gaining a basic knowledge about energy-producing technologies and learning about the key cost figures, associated risks, and advantages and limitations of each technology." --IEEE Electrical Insulation Magazine, August 2006

From the Back Cover: Provides a unique comparison of a wide range of power generation technologies; conventional, nuclear and renewable; Describes the workings and environmental impact of each technology; Evaluates the economic viability of each different power generation system. Paul Breeze provides a concise and readable description of the spectrum of different power generation technologies available today, from traditional fossil fuels and the better established renewables such as wind and solar power, to emerging renewables such as biomass, wave and tidal stream energy. Technology solutions such as combined heat and power, and distributed generation are also explored. However, *Power Generation Technologies* is more than just an account of the technologies; for each method the author explores the economic and environmental costs and risk factors. Those involved in planning and delivering energy; including engineers, managers and policy makers; will find in this book a guide through the minefield of maintaining a reliable power supply, meeting targets on greenhouse gas emissions, and addressing economic and social objectives.

About the Author: Paul Breeze is a journalist and freelance Science and Technology writer and consultant in the UK who has specialized in power generation technology for the past 30 years. In addition to writing *Power Generation Technologies, Second Edition*, he has contributed to journals and newspapers such as *The Financial Times* and *The Economist* and has written a range of technical management reports covering all aspects of power generation, transmission, and distribution.