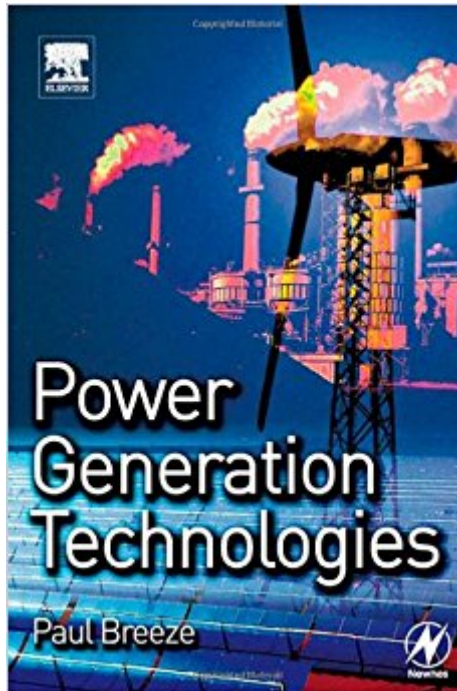




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Power Generation Technologies



Synopsis

This book makes intelligible the wide range of electricity generating technologies available today, as well as some closely allied technologies such as energy storage. The book opens by setting the many power generation technologies in the context of global energy consumption, the development of the electricity generation industry and the economics involved in this sector. A series of chapters are each devoted to assessing the environmental and economic impact of a single technology, including conventional technologies, nuclear and renewable (such as solar, wind and hydropower). The technologies are presented in an easily digestible form. Different power generation technologies have different greenhouse gas emissions and the link between greenhouse gases and global warming is a highly topical environmental and political issue. With developed nations worldwide looking to reduce their emissions of carbon dioxide, it is becoming increasingly important to explore the effectiveness of a mix of energy generation technologies. Power Generation Technologies gives a clear, unbiased review and comparison of the different types of power generation technologies available. In the light of the Kyoto protocol and OSPAR updates, Power Generation Technologies will provide an invaluable reference text for power generation planners, facility managers, consultants, policy makers and economists, as well as students and lecturers of related Engineering courses.

- 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

Book Information

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Customer Reviews

"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

A guide for engineers and service planners to all major power generation methods â “ traditional and renewable â “ covering technologies, economic factors and environmental impact

A 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.

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.

I received it

Information was a bit stale, 2006 vintage. Renewable power has changed considerably. Used it for classwork and it had useful information.

This is for beginners, a lot of informations without any order. 80% of titles you can find for free on web, disappointed. I pay a lot for nothing. Is there any book with real world samples with detail answers!!!!!!!!!!!!!!

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