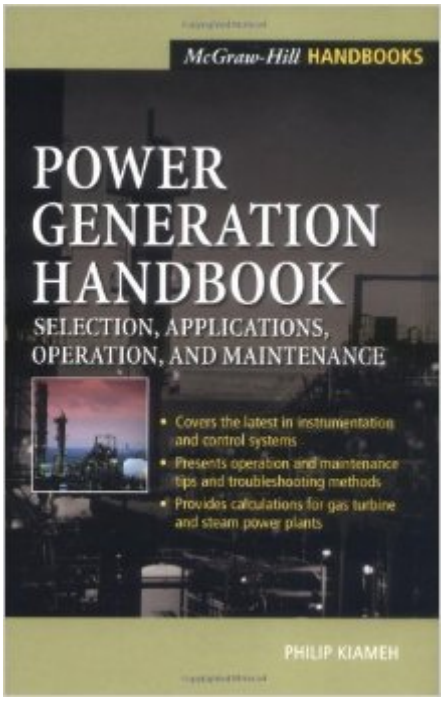
Power Generation Handbook : Selection, Applications, Operation, Maintenance



Synopsis

Weâ ™ve all lived through long hot summers with power shortages, brownouts, and blackouts. But at last, all the what-to-do and how-to-do it information youâ ™ll need to handle a full range of operation and maintenance tasks at your fingertips. Written by a power industry expert, Power Generation Handbook: Selection, Applications, Operation, Maintenance helps you to gain a thorough understanding of all components, calculations, and subsystems of the various types of gas turbines, steam power plants, co-generation, and combined cycle plants. Divided into five sections, Power Generation Handbook: Selection, Applications, Operation, Maintenance provides a thorough understanding of co-generation and combined cycle plants. Each of the components such as compressors, gas and steam turbines, heat recovery steam generators, condensers, lubricating systems, transformers, and generators are covered in detail. The selection considerations, operation, maintenance and economics of co-generation plants and combined cycles as well as emission limits, monitoring and governing systems will also be covered thoroughly. This all-in-one resource gives you step-by-step guidance on how to maximize the efficiency, reliability and longevity of your power generation plant.

Book Information

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Average Customer Review: 4.7 out of 5 starsÂ Â See all reviewsÂ (15 customer reviews)
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Customer Reviews

This is an excellent, practical handbook on power generation. It contains clear descriptions of how power generation components are constructed, how they work and how to maintain them. Points in

the text are illustrated through numerous detailed photographs, drawings and graphs. Topics include steam turbines, governing systems, valves, lubrication systems, gas turbines, bearings, seals, combined cycles, cogeneration, electrical components, etc.I have attended two courses taught by Philip Kiameh at the University of Toronto’s Professional Development Centre, one on power generation equipment and the other on mechanical equipment. Philip was an excellent teacher and his text books are similarly excellent and I highly recommend them. This text book is a valuable reference to the power generation course material.

The author puts his decades of experience in nuclear and fossil power generation into this book.It contains general mechanical and electrical theory, design approach, operation and maintenance concepts. It is written in practical terms that most working professionals can understand easily. At the same time, students will benefit greatly by the hands-on approach, gaining virtual experience into a power generation station.This book is highly recommended for experienced professional and technical staff with the desire to expand on their knowledge. As well as students seeking a career in the field of power generation.Charles ChoySenior Electrical EngineerCity of Toronto

This Book covers the A-Z of Power generation Plant , from Steam / Gas turbines to power transformers and generators, this book takes you in a sequential progressive manner towards comprehensive and thorough understanding of Power generation Plant. It covers all discplines : Mechanical , electrical,Instrumentation , thermodynamic and written for engineers as well as technicians and operators.It has also a particular focus on the Combined Cycle plants which is the most economic among power plants and likely to dominate the market in the coming future.It is a very useful reference book for anyone interested in power generation and it is very interesting to read.

As a professional I rely on technical sources to meet daily challenges.The newly acquired "Power Generation" authored by P.Kiameh is a valuable addition to my library and a good starting place in my quest for technical answers.The well research and equally well-presented material has been a foundation of much valuable information.Throughout the pages one can see that the author has many years of "hands on" experience, which was accrued, developed and refined on an "operating floor" of a very large generating facility. As a result the information presented is accurate, practical and proven.This Handbook is a must for every professional.

P. Kiameh’s "Power Generation Handbook" has been an invaluable addition to the materials I need to sucessfully execute my job. I work in the electrical power industry and Mr. Kiameh’s simple and practical approach has provided that extra assistance that allows for easy solution to our every day problems. More importantly, Mr. Kiameh has managed to complile useful and important principles relating to the Power industry in one handbook. I highly recommend this book for technical personnel involved in the Power Generation Industry.

This book is a must have for anyone working in the Power Generation Industry. It begins with an introduction to thermodynamics and then takes you through the details of the various systems in a Power Plant. It clearly explains the selection, operation and maintenance of each system.This book is very well written and it is easy to read with many practical examples. The illustrations and pictures are very detailed. I’ve been looking for a reference book on Power Generation and I am glad that I’ve finally found one.

I have read a shed load of books on this topic and this one has an uncanny balance betweeen being simple, straight forward and easy to read. At the same time as it manages this it gives an insight to many components, parts, auxiliaries that most books of this genre leave you looking for other sources. It is by no means specific or in depth to any brand, installation or company but is a great start point covering a lot of information normally found through various trade specific books or vendor data manuals. It is a touch costly but given how impressed I am that does not come into my rating at all. I have paid a lot more for technical books that have been or will be referred to far less. It is, in terms of technical books, like the type of journeyman every apprentice would appreciate. Well done indeed to the Author (Philip Kiameh).

As a professional and in order to meet the daily technical challenges I rely on sources that they can provide me with accurate and practical information.The newly acquired "Power generation Handbook" author by P.Kiameh its a valuable addition to my library.The well research and equally well presented material has been a source of many valuable information.In the pages of this "Handbook" one can see that the author has many years of "hands on" experience which was developed on the "floor" of a very large generating facility therefore the information presented is accurate, practical and proven.This book is a must for any professional.

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