



Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants

Y P Abbi

Download now

Read Online ➔

[Click here](#) if your download doesn't start automatically

Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants

Y P Abbi

Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants Y P Abbi

The availability of fossil fuels required for power plants is reducing and their costs increasing rapidly. This gives rise to increase in the cost of generation of electricity. But electricity regulators have to control the price of electricity so that consumers are not stressed with high costs. In addition, environmental considerations are forcing power plants to reduce CO₂ emissions. Under these circumstances, power plants are constantly under pressure to improve the efficiency of operating plants, and to reduce fuel consumption. In order to progress in this direction, it is important that power plants regularly audit their energy use in terms of the operating plant heat rate and auxiliary power consumption.

Energy Audit of Thermal Power, Combined Cycle, and Cogeneration Plants attempts to refresh the fundamentals of the science and engineering of thermal power plants, and establishes its link with the real power plant performance data through case studies, and further developing techno-economics of the energy efficiency improvement measures. This book will rekindle interest in energy audits and analysis of the data for designing and implementation of energy conservation measures on a continuous basis.

Key features:

- Extensive coverage of basic design concepts and equipment details
- Specific details on methodology for energy audit data collection for different equipment/subsystems
- Analysis of data with the basic objective of energy efficiency improvement of different equipment/subsystems of a power plant
- Techno-economics of each energy efficiency/energy conservation measure, to enable management to take right investment decisions
- Insightful discussions on advanced technologies like supercritical and IGCC power generation systems

Contents:

- 1 Energy conservation in operation of thermal power plants

Section A Design Concepts

- 2 Design concepts of steam cycle power plants
- 3 Design concepts of cogeneration plants
- 4 Design concepts of combined cycle power plants

Section B Energy Audit of Steam Cycle Power Plants

- 5 Perspectives of Energy Audits
- 6 Energy Audit of Boilers and their Auxiliaries
- 7 Energy Audit of Steam Turbine Generators and their Auxiliaries
- 8 Techno-economic Analysis of Energy Audit Results
- 9 Energy Audit of Plant Auxiliaries

Section C Energy Audit of Cogeneration and Combined Cycle Plants

- 10 Energy Audit of Steam Turbine-based Cogeneration Plants
- 11 Gas Turbine-based Cogeneration and

Combined Cycle Plants

 **Download** [Energy Audit: Thermal Power, Combined Cycle, and Cogene ...pdf](#)

 **Read Online** [Energy Audit: Thermal Power, Combined Cycle, and Coge ...pdf](#)

Download and Read Free Online Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants Y P Abbi

Download and Read Free Online Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants Y P Abbi

From reader reviews:

Salvador Perez:

The ability that you get from Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants may be the more deep you excavating the information that hide within the words the more you get considering reading it. It does not mean that this book is hard to recognise but Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants giving you excitement feeling of reading. The article author conveys their point in specific way that can be understood simply by anyone who read that because the author of this book is well-known enough. This book also makes your vocabulary increase well. It is therefore easy to understand then can go with you, both in printed or e-book style are available. We recommend you for having this Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants instantly.

Eli Gaddy:

A lot of people always spent all their free time to vacation or perhaps go to the outside with them household or their friend. Were you aware? Many a lot of people spent they free time just watching TV, or even playing video games all day long. If you want to try to find a new activity that is look different you can read any book. It is really fun to suit your needs. If you enjoy the book that you just read you can spent 24 hours a day to reading a book. The book Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants it doesn't matter what good to read. There are a lot of folks that recommended this book. These folks were enjoying reading this book. In case you did not have enough space to deliver this book you can buy the e-book. You can m0ore simply to read this book through your smart phone. The price is not too costly but this book possesses high quality.

Rick Beard:

This Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants is great book for you because the content which can be full of information for you who all always deal with world and still have to make decision every minute. This particular book reveal it facts accurately using great plan word or we can point out no rambling sentences within it. So if you are read the item hurriedly you can have whole facts in it. Doesn't mean it only provides you with straight forward sentences but tough core information with wonderful delivering sentences. Having Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants in your hand like finding the world in your arm, data in it is not ridiculous a single. We can say that no reserve that offer you world throughout ten or fifteen small right but this e-book already do that. So , this really is good reading book. Heya Mr. and Mrs. occupied do you still doubt in which?

Patricia Humes:

In this period of time globalization it is important to someone to acquire information. The information will make professionals understand the condition of the world. The fitness of the world makes the information simpler to share. You can find a lot of referrals to get information example: internet, newspaper, book, and

soon. You will observe that now, a lot of publisher that print many kinds of book. Often the book that recommended for your requirements is Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants this publication consist a lot of the information from the condition of this world now. This specific book was represented how does the world has grown up. The words styles that writer use to explain it is easy to understand. Typically the writer made some study when he makes this book. That is why this book ideal all of you.

**Download and Read Online Energy Audit: Thermal Power,
Combined Cycle, and Cogeneration Plants Y P Abbi
#MNWYF0R9CZG**

Read Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants by Y P Abbi for online ebook

Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants by Y P Abbi Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants by Y P Abbi books to read online.

Online Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants by Y P Abbi ebook PDF download

Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants by Y P Abbi Doc

Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants by Y P Abbi Mobipocket

Energy Audit: Thermal Power, Combined Cycle, and Cogeneration Plants by Y P Abbi EPub