



Objectives

upon completion of this chapter, you will be able to:

1. Understand various operating costs of a power system.
2. Determine the load sharing between different generators for minimum cost dispatch.

Introduction

The efficient and optimum economic operation of electric power generation systems has occupied an important position in the electric power industry. Economic operation is very important for a power system to return a profit on the capital invested.

The optimum operation of the system involves the consideration of economy of operation, system security, emissions at a certain fossil-fuel plants. The hydrothermal coordination problem is another optimum operating problem area that has received a great deal of attention. Another factor that influences the power generation at minimum cost is transmission losses.

The most efficient generator in the system does not guarantee minimum cost as it may be located in an area where fuel cost is high. Also, if the plant is located far from the load centre, transmission loss may be higher, and hence the plant may be uneconomical.

The basic objective is to determine the generation of different plants, such that total operating cost is minimum. The operating cost plays an important role in economic scheduling.

Generator Operating Cost

The total generation cost includes fuel, labour, and maintenance costs. In case of economic load dispatch, the generations are not fixed, but they are allowed to take values within certain allowable limits so as to meet a particular load demand with minimum fuel consumption. The total cost of generation is a function of the individual generation of the sources, which can take values within certain constraints; the cost of generation will depend on system constraints for a particular load demand. In this section, we will only consider fuel costs because other costs cannot be optimised based on generation.

We usually express instead of cost (P_g) , input energy rate $F(P_g)$ [Mkcal/h] because fuel cost may change daily/monthly.

Heat rate curve $H(P_g)$ is heat energy in Mkcal need to generate one unit of electrical energy (kWh). Based on experimental data for a plant the heat rate curve is plotted in Figure 3.1.



Fig. 3.1 Variation of Cost and Heat Rate with Power

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Signal and Information Processing, Networking and Computers Yue Wang, Yuyang Liu, Jiaqi Zou, Mengyao Huo, 2023-02-23

This book collects selected papers from the 10th Conference on Signal and Information Processing Networking and Computers held in Xi Ning China held in July 2022 The book focuses on the current works of information theory communication system computer science aerospace technologies and big data and other related technologies People from both academia and industry of this field can contribute and find their interests from the book *Stochastic Methods for Estimation and Problem Solving in Engineering* Kadry, Seifedine, 2018-03-02 Utilizing mathematical algorithms is an important aspect of recreating real world problems in order to make important decisions By generating a randomized algorithm that produces statistical patterns it becomes easier to find solutions to countless situations Stochastic Methods for Estimation and Problem Solving in Engineering provides emerging research on the role of random probability systems in mathematical models used in various fields of research While highlighting topics such as random probability distribution linear systems and transport profiling this book explores the use and behavior of uncertain probability methods in business and science This book is an important resource for engineers researchers students professionals and practitioners seeking current research on the challenges and opportunities of non deterministic probability models **Energy Abstracts for**

Policy Analysis, 1986 *Data Analytics-Based Demand Profiling and Advanced Demand Side Management for Flexible Operation of Sustainable Power Networks* Jelena Ponoćko, 2020-01-27 This thesis deals with two important and very timely aspects of the future power system operation assessment of demand flexibility and advanced demand side management DSM facilitating flexible and secure operation of the power network It provides a clear and comprehensive literature review in these two areas and states precisely the original contributions of the research The book first demonstrates the benefits of data mining for a reliable assessment of demand flexibility and its composition even with very limited observability of the end users It then illustrates the importance of accurate load modelling for efficient application of DSM and considers different criteria in designing DSM programme to achieve several objectives of the network performance simultaneously Finally it demonstrates the importance of considering realistic assumptions when planning and estimating the success of DSM programs The findings presented here have both scientific and practical significance they gained her BSc and MSc degrees in electrical engineering from the University of Belgrade in 2011 and 2012 respectively She graduated with her PhD from the University of Manchester She has presented at several conferences and has won runner up prizes in poster presentation at three She has authored or co authored more than 40 journal conference and technical papers provide a basis for further research and can be used to guide future applications in industry **Data Science and Applications for Modern Power Systems** Le Xie, Yang Weng, Ram Rajagopal, 2023-06-20 This book offers a comprehensive collection of research articles that utilize data in particular large data sets in modern power systems operation and planning As the power industry moves

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