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Chapter 2 : Electric Power Distribution Engineering, 3rd Edition [Book]

Electric Power Distribution System Engineering is written for senior-level undergraduate students or beginning-level graduate students, and for practicing engineers who may want to teach themselves.

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University of Missouri-Columbia. He has taught electrical electric power engineering for over 31 years. Gonen also has a strong background in power industry; for eight years he worked as a design engineer in numerous companies both in the United States and abroad. Professor Gonen has written over technical papers as well as four other books: Acknowledgments This book could not have been written without the unique contribution of Dr. Robb and Associates, in terms of numerous problems and his kind encouragement and friendship over the years. The author also wishes to express his sincere appreciation to Dr. The author is most grateful to numerous colleagues, particularly Dr. John Thompson who provided moral support for this project, and Dr. Tudor of the University of Missouri at Columbia; Dr. Council of Louisiana Tech University; Dr. Koval of the University of Alberta; Late Dr. Elgerd of the University of Florida; Dr. James Story of Florida International University; for their interest, encouragement, and invaluable suggestions. Moreau, Balteau Standard, Inc. Lopp, General Electric Company, for their kind help and encouragement. The author would also like to express his thanks for the many useful comments and suggestions provided by colleagues who reviewed this text during the course of its development, especially to John 1. Sullivan, University of Florida. Gasgoigne, Those who know how can always get a job, but those who know why, may be your boss! Author unknown To make an end is to make a beginning. The end is where we start from. The electric utility industry grew very rapidly, and generation stations and transmission and distribution networks spread across the entire country. Considering the energy needs and available fuels that are forecasted for the next century, energy is expected to be increasingly converted to electricity. In general, the definition of an electric power system includes a generating, a transmission, and a distribution system. In recent years, however, these figures have somewhat changed. For example, Figure 1. The percentage of electric plants represented by the production i. The major investment has been in the production sector, with distribution a close second. Where expenditures for individual generation facilities are visible and receive attention because of their magnitude, the data indicate the significant investment in the distribution sector. The main reason for the increase has been rapidly escalating fuel costs. Succinctly put, the economic importance of the distribution system is very high, and the amount of investment involved dictates careful planning, design, construction, and operation.

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