



Electrical Calculations and Guidelines for Generating Station and Industrial Plants

By Thomas E. Baker

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"This is really a practical, hands-on book for the working engineer."

?Phillip Wheeler, former Southern California Edison supervising electrical apparatus engineer and regional IEEE PES/IAS leader

A very helpful tool for solving circuit protection problems, **Electrical Calculations and Guidelines for Generating Stations and Industrial Plants** presents and simplifies the theory and 132 calculations that electrical engineers typically need to understand in order to support operations, maintenance, and betterment projects for generating stations and other large industrial facilities. The book begins with a cursory review or refresher of basic electrical theory. It then provides additional insights into electrical theory and sets the conventions that will be utilized throughout the remainder of the book.

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Editorial Review

Review

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"Electrical power engineers will appreciate this hook. It is like having your own expert available anytime you want. This book is sort of like that person who has worked in this field all their life and knows exactly how to perform the calculations to get to the desired information. And you can go to that person to get answers to your problem. This hook gets right down to the fundamental problem most commonly encountered in power engineering calculations for electrical systems. ... the basic calculations can be used on any standard. If you are learning about power engineering or even experienced engineers would find this book well worth the time to read."

?John J. Shea, *IEEE Electrical Insulation Magazine*

About the Author

Tom Baker is currently a consulting engineer for Sumatron in support of large generating stations. He has performed protection reviews on over 30,000 megawatts of nuclear, coal, oil, and gas generating units; consequently, is well aware of protection oversights that can impact the productivity of large generating stations and covers them in the book. He has developed and presented 29 four-day hotel and on-site comprehensive electrical power engineering seminars for utility protection engineers, nuclear generating stations, municipal utilities, cooperatives, investor owned power producers, and engineering companies. The 4-day seminars are approved by IEEE for educational credit. He holds two patents and developed the "EE Helper Power Engineering" software program.

Previously he worked for Southern California Edison (SCE) for 36 years and had progressive responsibility as a protective relay technician, metering engineer, protection engineer, distribution engineer, apparatus engineer and for the last 15 years with SCE he was the chief electrical engineer for 12 large fossil fuelled generating stations.

Mr. Baker completed a master's degree in electrical power engineering and management.

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