



Handbook of Electrical Design Details

By Neil Sclater, John Traister

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A COMPREHENSIVE SOURCE OF TECHNICAL DETAILS ON ELECTRICAL POWER FROM GENERATION TO PRACTICAL APPLICATIONS

Reliable, low-cost electric power is a fundamental requirement for modern society, making possible such vital services as lighting, HVAC, transportation, communication, and data processing, in addition to driving motors of all sizes. A mainstay of industrial productivity and economic prosperity, it is also essential for safeguarding human life and health. This handbook is a valuable information resource on electric power for everyone from technical professionals to students and laypeople.

This compact, user-friendly edition updates and expands on the earlier edition. Its core content of power generation, distribution, lighting, wiring, motors, and project planning has been supplemented by new topics:

- * **CAD for preparing electrical drawings and estimates**
- * **Basic switch and receptacle circuit wiring**
- * **Structured wiring for multimedia**
- * **Swimming pool and low-voltage lighting**
- * **Electrical surge protection**

An easy-to-read style makes complex topics understandable. It's a must-have reference for those with a need or desire to get up to speed on the entire subject of electric power or just familiarize themselves with the latest advances--regardless of their formal education or training. Reader-helpful features in this edition include:

- * **Up-front chapter summaries to save time in finding topics of interest.**
- * **References to related articles in the National Electrical Code.**

*** A bibliography identifying additional sources for digging deeper.**

*** Approximately 300 illustrations**

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Editorial Review

From the Inside Flap

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About the Author

Neil Sclater was an engineer in the military/aerospace industry before turning to editing and writing professionally on electromechanical and electronic subjects. After working as a staff editor for several engineering magazines, he became an editorial consultant. His technical articles have been published in more than a dozen different publications. In addition to revising this book, he is the author or co-author of nine other McGraw-Hill professional reference books. He holds degrees from Brown and Northeastern universities.

The late **John E. Traister** was employed in the electrical construction industry as an electrician and electrical contractor for more than 35 years. He was the author of nine books on different topics for McGraw-Hill, including the First Edition of *Handbook of Electrical Design Details* and *McGraw-Hill's Illustrated Index to the National Electrical Code®*.

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