



# Three-Phase Electrical Power

*By Joseph E. Fleckenstein*

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**Three-Phase Electrical Power** By Joseph E. Fleckenstein

**Three-Phase Electrical Power** addresses all aspects of three-phase power circuits. The book treats the transmission of electrical power from the common sources where it is generated to locations where it is consumed. At typical facilities where electrical power is used, the book covers the important topics of grounding, currents, power, demand, metering, circuit protection, motors, motor protection, power factor correction, tariffs, electrical drawings, and relays. Included in the text are the necessary methods of computing currents and power in all possible types of circuit applications as those that are balanced, unbalanced, leading, lagging, three-wire, and four-wire.

Focusing on electrical gear, programs, and issues related to the generation and use of three-phase electrical power, this contemporary educational guide:

- Uses simple, straightforward language to explain key concepts and their underlying theory
- Introduces numerous examples, illustrations, and photographs to aid in comprehension
- Employs phasor concepts throughout the text to aid in the analysis of three-phase circuits
- Encourages applied learning by supplying practical problems at the end of each chapter
- Provides extensive references and a glossary of symbols, acronyms, and equations

**Three-Phase Electrical Power** delivers a much-needed modern-day treatment of three-phase electrical power for electrical engineering students and practitioners alike.

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### Editorial Review

#### About the Author

**Joseph E. Fleckenstein** graduated from Carnegie Mellon University, Pittsburgh, Pennsylvania, USA with a BS in mechanical engineering and a minor in electrical engineering. Post-graduation, he completed more than 32 courses in a variety of subjects, including graduate level courses at the University of Wisconsin, Madison, USA and Pennsylvania State University, State College, USA. He has been a registered professional engineer for more than 30 years and, throughout this period, has been involved in a variety of roles with manufacturers and engineering firms. Over the years, he has authored a number of technical papers, specifications, system descriptions, and prepared online courses for registered professional engineers. A member of IEEE and ISA, he is well experienced in electrical power generation, transmission, circuit protection, and controls.

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