



# Handbook of Electric Power Calculations, Fourth Edition (Electronics)

By H. Wayne Beaty, Surya Santoso

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**Handbook of Electric Power Calculations, Fourth Edition (Electronics)** By H. Wayne Beaty, Surya Santoso

## Ready-to-use electric power calculations

Fully revised to include calculations needed for the latest technologies, the new edition of this essential guide provides the step-by-step procedures required to solve a wide array of electric power problems. This time-saving tool makes it easy to find and use the right calculation. New sections address power electronics, alternate energy, power quality, and smart grids. Featuring coverage of the entire electrical engineering spectrum, this practical resource contains graphs, illustrations, and SI and USCS equivalents.

*Handbook of Electric Power Calculations, Fourth Edition*, covers:

- Basic network analysis
- Instrumentation
- DC motors and generators
- Transformers
- Three-phase induction motors
- Single-phase motors
- Synchronous machines
- Generation of electric power
- Overhead transmission lines and underground cables
- Electric power networks
- Power flow analysis in power systems
- Power system control
- Short-circuit computations
- System grounding and earthing
- Power system protection
- Power system stability
- Cogeneration
- Stationary batteries
- Electric energy economic models
- Lighting design
- Power electronics

- Alternate energy sources
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## **Editorial Review**

### **About the Author**

**H. Wayne Beaty** was managing editor of *Electric Light and Power* and distribution editor for *Electrical World* magazine. He has also worked for the Electric Power Research Institute (EPRI), the West Texas Utilities Company, and the Houston Lighting & Power Company. Beaty is editor of the *Standard Handbook of Electrical Engineering* and coauthor of *Electric Power Systems Quality*, Third Edition (McGraw-Hill Education). He is Senior Member of the IEEE.

**Surya Santoso, Ph.D.**, is an associate professor at the University of Texas. His research interests are in electric power quality and wind power systems. Dr. Santoso is coauthor of *Electrical Power Systems Quality*, Third Edition.

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