



# Power Over Ethernet Interoperability Guide (Electronics)

By Sanjaya Maniktala

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**Power Over Ethernet Interoperability Guide (Electronics)** By Sanjaya Maniktala

## A Complete Guide to Transmitting Electrical Power and Data over Ethernet Cables

*Power over Ethernet Interoperability* explains how to safely transmit DC power over an existing data network cabling structure so that separate AC electrical wiring is not needed to power up devices connected to the network. With a focus on cost-effective unshielded twisted pair (UTP) cables, this book provides proven methods for designing reliable Power over Ethernet (PoE) equipment and ensuring that it functions effectively. Details on the IEEE 802.3af/at standards and how various devices can operate from PoE are also contained in this practical resource.

Coverage includes:

- The evolution of PoE
- Overview of PoE implementations
- Detection
- Classification
- Inrush and power-up
- Operation
- Maintain power and disconnect
- PoE state-machine diagrams
- Magnetics
- Isolation, PCB design, and safety
- Surge testing and protection
- Lab skills, thermal management, and decoupling
- N-pair power delivery systems
- Auxiliary power and flyback design

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#### About the Author

**Sanjaya Maniktala** is Director of Engineering (PoE and Power) at San Jose, California. He has held lead engineering and managerial positions in India, Singapore, and Germany as well as in the U.S. Mr. Maniktala is the author of *Switching Power Supply Design & Optimization* (McGraw-Hill, 2004).

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