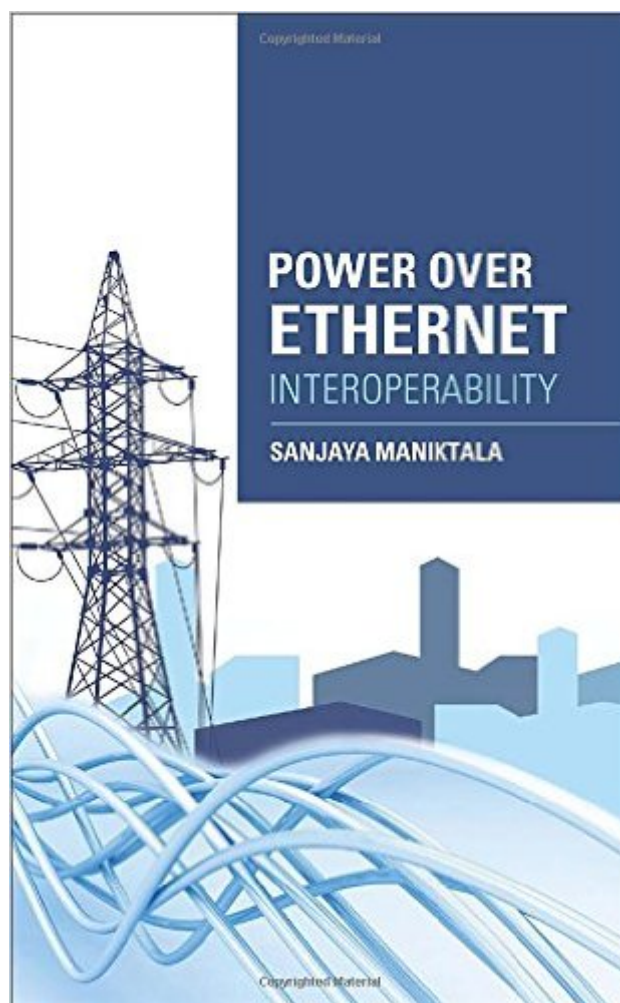


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# Power Over Ethernet Interoperability Guide



## Synopsis

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

## Book Information

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## Customer Reviews

PoE Interoperability Guide is a gentle, thorough and comprehensive book on PoE. I am not aware of any books like this one, meaning: are there any other books as complete as this one that describe PoE from the early beginnings of Ethernet to present times? There are none to my knowledge, with this level of didactic expertise, profusely illustrated with pictures and tables that are quite hard to obtain anywhere else under the same cover. The book's overview of POE is very descriptive and is

an easy and pleasant reading, virtually for any reader interested in the subject. Specifications written on the subject are quite hard to read and understand. Sanjaya writes very smoothly keeping the explanations concise and to the point. Figure 1.3 on Ethernet Nomenclature is very nicely laid out, the chart in itself has a tremendous amount of content. The book blends and describes the purpose, the history and the functionality of Ethernet and PoE. Chapter 2 is a very nice and very descriptive of various PoE implementations. The fact that it does not get into the advanced calculus of electromagnetism and electrical engineering makes the book very attractive to a very wide audience. Hardware engineers, software engineers, management types and the curious teammate on PoE can definitely benefit from the information the book presents. I also believe that the book may also be informative as well as useful to patent attorneys with some background on Ethernet and basic electrical concepts. Chapter 3 on Detection is very rich in content as well as practical. For example refer to the section on "Some Practical Detection Techniques".

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