Ethernet: The Definitive Guide

Charles E. Spurgeon

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Ethernet is a core networking technology used by every high tech business. While the basic protocols have changed little, new options such as Fast Ethernet and Gigabit Ethernet have increased the complexity of the topic.

Ethernet has been the flavor of choice for networking administrators since the early 1980s because of its ease of use and scalability. Written by one of the foremost experts on Ethernet standards and configuration, Charles E. Spurgeon, *Ethernet: The Definitive Guide* includes everything you need to know to set up and maintain an Ethernet network.

Ethernet: The Definitive Guide teaches you everything you need to know about the IEEE 802.3 Ethernet standard and its protocols. The book is logically separated into five parts:

- **Introduction to Ethernet** provides a tour of basic Ethernet theory and operation, including a description of Ethernet frames, operation of the Media Access Control (MAC) protocol, full-duplex mode and auto-negotiation.
- **Ethernet Media Systems** is the heart of the book. This sectionof *Ethernet: The Definitive Guide* shows you how to build media-specific Ethernet networks, from a basic 10BASE-T Ethernet offering 10 Mbps over twisted-pair cables, to an advanced 1000BASE-X Gigabit Ethernet, providing up to 1 Gbps of data transfer over fiber optic cables.
- **Building Your Ethernet System** teaches you how to build twisted-pair and fiber optic media segments, as well as how to build your Ethernet using repeaters and hubs.
- **Performance and Troubleshooting** is divided into two chapters. The first describes both the performance of a given Ethernet channel, as well as the performance of the entire network system. The second includes a tutorial on troubleshooting techniques and describes the kinds of problems network administrators are likely to encounter.

The last part of the book includes a complete glossary of terms used throughout the book, a resource list, descriptions of thick and thin coax-based Ethernet systems, a guide to AUI equipment installation and configuration, and a listing of troubleshooting numbers.

This book is the definitive guide for anyone wanting to build a scalable local area network (LAN) using Ethernet.

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