



Telecom 101

By Eric Coll

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PART 1: FUNDAMENTALS OF TELECOMMUNICATIONS

Introduction

Fundamentals of Telephony

Telecom Equipment

The Telecommunications Industry

Digital Communications

Transmission Systems

T1

Wireless Communications

Voice Services and Jargon

PART 2: UNDERSTANDING DATA COMMUNICATIONS

Introduction to Data Communications and Networking

How Data is Formatted for Transmission

Modems

Broadband Modems

Understanding LANs

PART 3: UNDERSTANDING IP AND NETWORKING

Understanding Protocol Stacks

IP Addressing

Private Networks Using Routers and Dedicated Lines

Bandwidth On Demand

IP Network Services

Understanding the Internet

Wrapping Up

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Telecom 101 By Eric Coll Bibliography

- Rank: #3028057 in Books
- Published on: 2008-01-01
- Number of items: 1
- Binding: Paperback
- 400 pages



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Editorial Review

Review

"A lifesaver" -- Name withheld by request, US Army Communication Specialist deployed in Iraq, March 2004

About the Author

Eric Coll is an international expert in telecommunications, data communications and networking and has been actively involved in the industry since 1983.

He holds Bachelor s and Master of Engineering (Electrical) degrees, and is licensed as a Professional Engineer in his home jurisdiction.

Mr. Coll has taught telecommunications technology training seminars to wide acclaim across North America since 1992, and has broad experience working as an engineer in the telecommunications industry.

He has worked for Nortel's R&D labs as a design engineer on projects including digital voice and data communications research and digital network equipment design; on satellite radar systems; Wide Area Network design for HMO applications; and many other projects in capacities ranging from detailed design and implementation to systems engineering, project leader and consultant.

Mr. Coll is founder and Director of Teracom Training Institute.

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