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Communication Networks

Alberto Leon-Garcia   Indra Widjaja

Second Edition

COMMUNICATION NETWORKS
Fundamental Concepts and Key Architectures
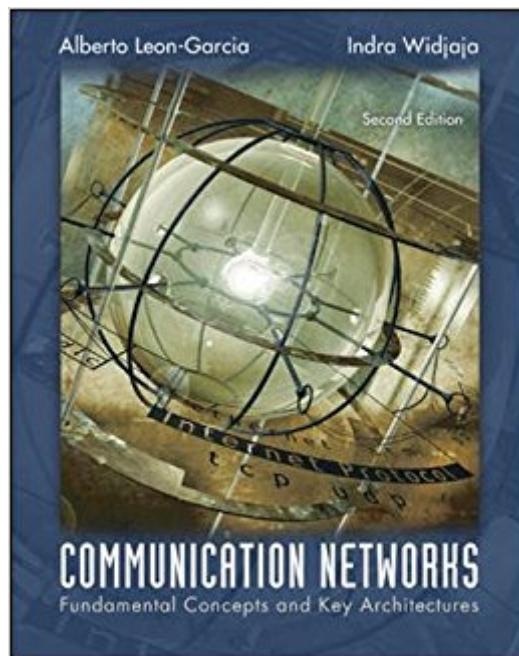
Synopsis

This book is designed for introductory one-semester or one-year courses in communications networks in upper-level undergraduate programs. The second half of the book can be used in more advanced courses. As pre-requisites the book assumes a general knowledge of computer systems and programming, and elementary calculus. The second edition expands on the success of the first edition by updating on technological changes in networks and responding to comprehensive market feedback.

Book Information

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Customer Reviews

Alberto Leon-Garcia is a Professor in the Depatment of Electrical and Computer Engineering at the University of Toranto where he holds the Jeffrey Skoll Chair in Computer Network and Innovation. He was also Chief Technical Officer and Co-Founder of Accelight Networks Inc. where he led the development of a terabit multiservice optical switch. In 1999 Dr. Leon-Garcia became an IEEE fellow for "for Contribution to multiplexing and switching of Integrated Service traffic."Inra Widjaja received his Ph.D degree in electrical engineering on high-speed packet switching architectures from the uiversity of Toronto in 1992. Since 2001 he has been a researcher at Bell Laboratories, Lucent Technologies. Dr.Widjaja's current research interests include traffic Engineering, architectures for cost effective tranport networks, and High-Speed packet Switching. He has Extensive publication in technical journals and high-Speed packet Switching. He has an Extensive Publication in technical Journals and Conferences and holds several patents in Switching

architectures. He is also an active member of IETF and IEEE.

Over 10 years ago, Dr. Leon-Garcia wrote the epitimal tome on computer networks, and it is still mandatory reading at the graduate level. The material within is starting to show its age. Most of it's very historical, what the modern comm systems are based on. If he ever writes a next edition, I hope he adds something about modern wifi.

This was for my communications networks class. We went through a majority of the book (ch 1-8). I feel like it's already getting outdated (c)2004. But it gives a good introductory explanation of a huge variety of topics. I like the topic so reading the book was actually enjoyable unlike other engineering textbooks. It's not that long winded.The homework problems included are pretty hard and sometimes the wording was confusing. A couple times we had to look up things on the internet. And the solution manuals were sort of ambiguous on the method to solve the problems. The appendix has some good formulas.There's also a pdf ebook out there too. That makes things convenient.Chapters:1 Communication Networks and Services2 Applications and Layered Architectures3 Digital Transmission Fundamentals4 Circuit-Switching Networks5 Peer-to-Peer Protocols and Data Link Layer6 Medium Access Control Protocols and Local Area Networks7 Packet-Switching Networks8 TCP/IP9 ATM Networks10 Advanced Network Architectures11 Security Protocols12 Multimedia Information

The book is easy to follow and understand. There are plenty of examples and problems to better understand the material.

great product

Good

Really nice book. Immaculate condition!

OK in general, some cosmetic details I was not expecting from a brand new book

It was just perfect and good conditions

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