



## Fundamentals of Telecommunications, 2nd Edition

By Roger L. Freeman



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The *Second Edition* of this critically-acclaimed text continues the standard of excellence set in the first edition by providing a thorough introduction to the fundamentals of telecommunication networks without bogging you down in complex technical jargon or math. Although focusing on the basics, the book has been thoroughly updated with the latest advances in the field, including a new chapter on metropolitan area networks (MANs) and new sections on Mobile Fi, ZigBee and ultrawideband. You'll learn which choices are now available to an organization, how to evaluate them and how to develop strategies that achieve the best balance among cost, security and performance factors for voice, data, and image communication.

An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

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## Editorial Review

### Review

"...presents a very comprehensive treatment on the basic concepts of telecommunication without advanced mathematics." (*IEEE Circuits & Devices Magazine*, November/December 2006)

"...the concepts learned from this book will be a strong foundation for advanced studies in telecommunications and business data communication." (*Computing Reviews.com*, January 13, 2006)

### From the Back Cover

The Second Edition of this popular text is updated with THE latest advances in telecommunications

The standard of excellence set in the critically acclaimed Fundamentals of Telecommunications continues in this Second Edition, by offering a thorough introduction to the fundamentals of telecommunication networks without bogging the reader down in complex math or technical jargon. While focusing on the basics, the book also covers the latest advances in the field, including new chapters on:

- Metropolitan area networks (MANs)
- Voice over packets, including voice over IP (VoIP)
- Television transmission
- Network management

The author, renowned for his many bestselling titles in telecommunications, demystifies all of the components and standards of today's telecommunications world by providing solid coverage and key concepts. Readers learn which choices are available, how to evaluate them, and how to develop strategies that achieve the best balance among cost, security, and performance factors for voice, data, image communication, and more.

Fundamentals of Telecommunications, Second Edition discusses innovative advances needed to understand the ever-growing telecommunications industry:

- General concepts in telecommunications, including what connectivity is and what nodes do
- Voice networks embodied by the public switched telecommunications network (PSTN)
- Digital transmission and networks
- Data communications and enterprise networks
- Switching and signaling, transmission transport, cable television, cellular/PCS, and asynchronous transfer mode (ATM)

With updated review exercises and references provided at the end of each chapter, this is an excellent resource for students and professionals who need to understand the tremendous impact and potential of telecommunications.

### About the Author

**ROGER L. FREEMAN** is founder and Principal of Roger Freeman Associates, independent telecommunications consultants, specializing in system engineering in the United States, Canada, and

Hispanic America. In the course of over forty-five years' experience in telecommunications operations, maintenance, and engineering, he has served as principal engineer for advanced system planning at the Raytheon Company, technical manager for ITT Marine Europe, and regional planning expert for the International Telecommunications Union (ITU), among other positions. In addition to the previous edition of *Fundamentals of Telecommunications*, Mr. Freeman has written six other books on the subject of telecommunications engineering: *Reference Manual for Telecommunications Engineering*, Third Edition; *Fiber-Optic Systems for Telecommunications*; *Telecommunication System Engineering*, Fourth Edition; *Radio System Design for Telecommunications*, Second Edition; *Practical Data Communications*, Second Edition; and *Telecommunications Transmission Handbook*, Fourth Edition, all published by Wiley. A senior life member of the IEEE, Roger Freeman has lectured at numerous professional conferences and published widely in international telecommunication journals.

## **Users Review**

### **From reader reviews:**

#### **Nakia Schultz:**

As people who live in the actual modest era should be revise about what going on or details even knowledge to make these people keep up with the era that is certainly always change and advance. Some of you maybe can update themselves by reading books. It is a good choice to suit your needs but the problems coming to you is you don't know what one you should start with. This *Fundamentals of Telecommunications*, 2nd Edition is our recommendation to help you keep up with the world. Why, since this book serves what you want and need in this era.

#### **David Shetler:**

In this time globalization it is important to someone to acquire information. The information will make someone to understand the condition of the world. The fitness of the world makes the information much easier to share. You can find a lot of personal references to get information example: internet, classifieds, book, and soon. You will observe that now, a lot of publisher which print many kinds of book. Often the book that recommended for you is *Fundamentals of Telecommunications*, 2nd Edition this e-book consist a lot of the information from the condition of this world now. This specific book was represented just how can the world has grown up. The vocabulary styles that writer make usage of to explain it is easy to understand. Often the writer made some investigation when he makes this book. That is why this book appropriate all of you.

#### **Sheldon McLean:**

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**Larry Strickland:**

What is your hobby? Have you heard that will question when you got college students? We believe that that query was given by teacher to their students. Many kinds of hobby, Every individual has different hobby. And also you know that little person just like reading or as studying become their hobby. You need to know that reading is very important and book as to be the point. Book is important thing to incorporate you knowledge, except your teacher or lecturer. You find good news or update in relation to something by book. A substantial number of sorts of books that can you choose to adopt be your object. One of them is niagra Fundamentals of Telecommunications, 2nd Edition.

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