



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.

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Fundamentals of Telecommunications, 2nd Edition By Roger L. Freeman Bibliography

- Sales Rank: #1594014 in Books
- Published on: 2013-08-12
- Original language: English
- Number of items: 1
- Dimensions: 10.14" h x 1.51" w x 7.24" l, 3.13 pounds
- Binding: Hardcover
- 704 pages

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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

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