



Advanced Electronic Communications Systems (6th Edition)

By Wayne Tomasi

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Comprehensive in scope and contemporary in coverage, this book extends and updates the knowledge of the reader to the most modern topics in Electronic Communications systems. Numerous examples throughout provide readers with real-life applications of the concepts of analog and digital communications systems, while chapter-end questions and problems give them a chance to test and review their understanding of fundamental and key topics. Modern digital and data communications systems, microwave radio communications systems, satellite communications systems, and optical fiber communications systems. Cellular and PCS telephone systems coverage presents the latest and most innovative technological advancements being made in cellular communication systems. Optical fiber communications chapter includes new sections on light sources, optical power, optical sources and link budget. Current topics include trellis encoding, CCITT modem recommendations, PCM line speed, extended superframe format, wavelength division multiplexing, Kepler's laws, Clark orbits, limits of visibility, Satellite Radio Navigation and Navstar GPS. For the study of electronic communications systems.

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Editorial Review

From the Publisher

Basic electronic communications fundamentals compose the core of the first two books. In the second and the third books, the treatment is expanded to include the more modern digital and data communications systems. Previous experience with basic electronic principles and mathematics through trigonometry will provide the background needed to grasp the concepts that Tomasi presents.

From the Inside Flap

Preface

The purpose of this book is to extend and update the knowledge of the reader to more modern digital communications systems, optical fiber communications systems, terrestrial and microwave radio communications systems, satellite communications systems, and cellular and PCS telephone communications systems. The book was written so that a reader with previous knowledge in basic electronic principles and an understanding of mathematics through the fundamental concepts of calculus will have little trouble understanding the topics presented. Within the text are numerous examples that emphasize the most important concepts. Questions and problems are included at the end of each chapter. Answers to selected problems are provided at the end of the book.

Advanced Electronic Communications Systems, Fifth Edition, provides a comprehensive and modern coverage of the field of digital communications. The most important and extensive changes to this edition occur in the chapters that deal primarily with digital communications systems such as Chapters 2, 5, 6, 8, and 9. In addition, Chapter 10 is a new chapter dedicated entirely to cellular and PCS telephone systems. The major new topics and enhancements incorporated into this edition, by chapter number, are as follows:

Optical fiber communications has been moved from Chapter 10 to here. The introduction and several sections throughout this chapter have been rewritten and several new sections have been added, including sections on light sources, optical power, optical sources, and link budget. The sections on digital amplitude modulation, frequency shift keying, continuous-phase frequency shift keying, and M-ary encoding have been rewritten and a new ' section on trellis encoding has been added. This chapter is essentially the same as in the previous edition except for the addition of a new section on CCITT modem recommendations. This chapter remains essentially the same as in the previous edition. The introduction and several sections throughout this chapter, including the sections on advantages and disadvantages of digital transmission and pulse code modulation, have been rewritten and a new section on PCM line speed has been added. Also, several figures have been modified. The introduction and several sections throughout this chapter, including the sections on time-division multiplexing and T1 digital carrier systems, have been rewritten. New sections on extended superframe format and wavelength-division multiplexing have been added. The introduction has been rewritten along with parts of several other sections, including the advantages and disadvantages of microwave communications, diversity, protection switching, fading, free-space path loss, and fade margin. The introduction and several sections throughout this chapter have been rewritten, including the sections on history, satellite orbits, satellite elevation categories, satellite orbital patterns, geosynchronous satellites, antenna look angles, and footprints. New to this edition are sections on Kepler's laws, Clarke orbits, and limits of visibility. Minor modifications have been made to the introduction and several other sections throughout this chapter. Significant changes and additions have occurred in the section on satellite radio navigation and Navstar GPS. This new chapter provides a comprehensive coverage of mobile telephone

systems, including analog and digital cellular telephone (AMPS), the CDMA personal communications system (PCS), and the Iridium personal communications satellite systems (PCSS). Acknowledgments

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From the Back Cover

The sixth edition of *Advanced Electronic Communications Systems* provides a comprehensive coverage of modern systems including digital communications, optical fiber communications, terrestrial and satellite systems, and the wireless environment.

Significant material has been added, including:

- Three chapters on telephone circuits and systems
- Two chapters on cellular and PCS telephone systems
- Three chapters on fundamental concepts of data communications and networking
- New and updated figures

This text is designed for undergraduate communications courses in which students have prior knowledge of some basic electronic principles as well as an understanding of mathematics through the fundamental concepts of calculus.

Users Review

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