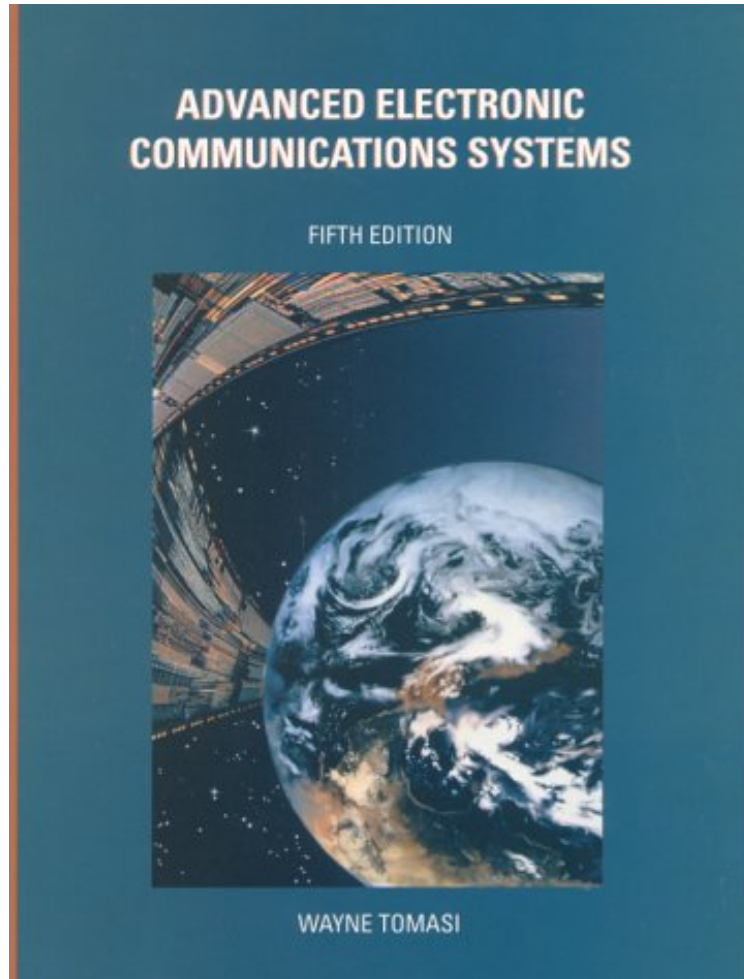


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For junior/senior-level courses in Advanced Topics in Electronic Communications. Comprehensive in scope and contemporary in coverage, this text explores modern digital and data communications systems, microwave radio communications systems, satellite communications systems, and optical fiber communications systems. This text is the last 10 chapters from the Tomasi Electronic Communication Systems: Fundamental Through Advanced, 4/e.

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 I would like to thank the following reviewers for their valuable feedback: Micha Hohenberger, Temple University; Martin Knutilla, McHenry County College; Steven Schwarz, Queens College; Walter Thain, Southern Polytechnic State University; and Martin Weiss, University of Pittsburgh. From the Back Cover Advanced Electronic Communications Systems, Fifth Edition, provides comprehensive coverage of the field of digital communications. It extends and updates 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. In addition to updating all topics in order to present the latest information available in this fast-changing field, completely new sections have been added in this edition to include coverage of the following important topics: Trellis encoding CCITT modem recommendations PCM line speed

Extended superframe format Wavelength division multiplexing Kepler's laws Clark orbits Limits of visibility Also included is an entirely new chapter (Chapter 10) which is devoted to critical coverage of: Mobile telephone systems (including AMPS, PCS, and PCSS) This text is written for use in undergraduate level electronic communications courses in which students have prior knowledge of some of the basic electronic principles as well as an understanding of mathematics through the fundamental concepts of calculus.