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This book, intended to be used as a textbook for a one-semester course, offers students an opportunity to learn about the technologies, system architectures and designs, as well as a variety of software-defined applications for radio-frequency (RF) systems. The book covers the fundamentals of digital and analog communications, such as modems and frequency-modulation (FM) radio, to digital signal processing and applications such as FM radio receivers, digital cellular systems, and wireless networking. It also introduces students to several core technologies, such as RF design, including active and passive antennas and mixers, and RF systems, such as RF front-end and signal-processing electronics. Other areas covered in the book are the fundamentals of communications systems, such as signal modulation, coding, and error correction techniques. The book also introduces students to communication systems design, which includes voice, audio, and video services as well as emerging wireless applications. There are detailed discussions on transmitter, oscillator, frequency synthesizer, and PLL design and operation. Real-world applications in wireless networking are also explained, along with an introduction to the Internet and the Web. The book further introduces students to the use of different software-defined radios, such as software defined radios (SDRs), software defined test and measurement (SDT&M) systems, software defined radios and software defined radios and networking. The book also covers topics such as RF systems, including the fundamentals of RF transmitters and receivers, active and passive antennas and mixers, oscillators, and RF synthesizers. It also introduces the use of RF circuits and designs, including frequency multipliers, double balanced mixers, and voltage-controlled oscillators (VCOs). The book explains how the RF signals are processed in the receiver, including image rejection, signal-processing circuits, and low-noise amplifiers (LNAs). The book also covers the fundamentals of digital communications, including asynchronous communications, the digital discrete-time signal, and digital communications theory. The book presents the basics of coding theory, including error correction, interleaving, and CRCs, as well as codes, such as convolutional codes, Reed-Muller codes, and turbo codes. It also includes the basics of modems and codes, including frame synchronizations, error detection, automatic gain control, and digital modulation, such as FM, spread spectrum, and orthogonal frequency division multiplexing (OFDM). The book discusses some 82157476af

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