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Description Bridging the gap between Digital Signal Processing theory and design, this implementation-oriented textbook is based on the authors' extensive experience in teaching graduate and undergraduate courses on the subject.

"Whether you are an engineering student or an engineer already engaged in system design, this current book will become your essential companion - guiding you in using both hardware and software as you design systems with programmable DSP devices."--Jacket.

"With a strong focus on basic principles and applications, this thoroughly up-to-date text provides a solid foundation in the concepts, methods, and algorithms of digital signal processing. Key topics such as spectral analysis, discrete-time systems, the sampling process, and digital filter design are all covered in well-illustrated detail." "Filled with examples and problems that can be worked in MATLAB or the author's DSP software, D-Filter, Digital Signal Processing offers a fully interactive approach to successfully mastering DSP." "Accessible and comprehensive, this resource covers the essentials of DSP theory and practice."--BOOK JACKET.

This cutting-edge, practical guide brings you an independent, comprehensive introduction to DSP processor technology. A thorough tutorial and overview of DSP architectures, this book incorporates a broad range of today's product offerings in examples that illustrate DSP features and capabilities. This book is especially useful to electronic systems designers, processor architects, engineering managers, and product planners.

An engineer's introduction to concepts, algorithms, and advancements in Digital Signal Processing. This lucidly written resource makes extensive use of real-world examples as it covers all the important design and engineering references.

About The Book: This book fuses signal processing algorithms and VLSI circuit design to assist digital signal processing architecture developers. The author then shows how this technique can be used in applications such as: signal transmission and storage, manufacturing process quality control and assurance, autonomous mobile system control and biomedical process analysis. This new publication is a revised and expanded version.

This is an attempt to develop a biotelemetry receiver using digital signal processing technology and techniques. The receiver developed in this work is based on recovering signals that have been encoded using either Pulse Position Modulation (PPM) or Pulse Code Modulation (PCM) technique. A prototype has been developed using state-of-the-art digital signal processing technology. A Printed Circuit Board (PCB) is being developed based on the technique and technology described here. This board is intended to be used in the UCSF Fetal Monitoring system developed at NASA. The board is capable of handling a variety of PPM and PCM signals encoding signals such as ECG, temperature, and pressure. A signal processing program has also been developed to analyze the received ECG signal to determine heart rate. This system provides a base for using digital signal processing in biotelemetry receivers and other similar applications. Singh, Avtar and Hines, John and Soms, Chris Ames Research Center NCC2-5173...

The analysis of bioelectrical signals continues to receive wide attention in research as well as commercially because novel signal processing techniques have helped to uncover valuable information for improved diagnosis and therapy. This book takes a unique problem-driven approach to biomedical signal processing by considering a wide range of problems in cardiac and neurological applications—the two "heavyweight" areas of biomedical signal processing. The interdisciplinary nature of the topic is reflected in how the text interweaves physiological issues with related methodological considerations. Bioelectrical Signal Processing is suitable for a final year undergraduate or graduate course as well as for use as an authoritative reference for practicing engineers, physicians, and researchers. Solutions Manual available online at <http://www.textbooks.elsevier.com> · A problem-driven, interdisciplinary presentation of biomedical signal processing · Focus on methods for processing of bioelectrical signals (ECG, EEG, evoked potentials, EMG) · Covers both classical and recent signal processing techniques · Emphasis on model-based statistical signal processing · Comprehensive exercises and illustrations · Extensive bibliography · For companion web site with project descriptions and signals for download see www.biosignal.lth.se

Extensive revision of the best-selling text on satellite communications — includes new chapters on cubesats, NGSO satellite systems, and Internet access by satellite There have been many changes in the thirty three years since the first edition of Satellite Communications was published. There has been a complete transition from analog to digital communication systems, with analog techniques replaced by digital

modulation and digital signal processing. While distribution of television programming remains the largest sector of commercial satellite communications, low earth orbit constellations of satellites for Internet access are set to challenge that dominance. In the third edition, chapters one through three cover topics that are specific to satellites, including orbits, launchers, and spacecraft. Chapters four through seven cover the principles of digital communication systems, radio frequency communications, digital modulation and multiple access techniques, and propagation in the earth ' s atmosphere, topics that are common to all radio communication systems. Chapters eight through twelve cover applications that include non-geostationary satellite systems, low throughput systems, direct broadcast satellite television, Internet access by satellite, and global navigation satellite systems. The chapter on Internet access by satellite is new to the third edition, and each of the chapters has been extensively revised to include the many changes in the field since the publication of the second edition in 2003. Two appendices have been added that cover digital transmission of analog signals, and antennas. An invaluable resource for students and professionals alike, this book: Focuses on the fundamental theory of satellite communications Explains the underlying principles and essential mathematics required to understand the physics and engineering of satellite communications Discusses the expansion of satellite communication systems in areas such as direct-broadcast satellite TV, GPS, and internet access Introduces the rapidly advancing field of small satellites, referred to as SmallSats or CubeSats Provides relevant practice problems based on real-world satellite systems Satellite Communications is required reading for undergraduate and postgraduate students in satellite communications courses and an authoritative reference for engineers working in communications, systems and networks, and satellite operations and management.

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