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signals and systems have been covered, and thoroughly supported with adequate number of explained examples. The book is intended for the BE/BTech students of Electrical Engineering, Electronics and Communication Engineering, Computer Science and Engineering, Information Communication Technology (ICT), Telecommunication Engineering and Biomedical Engineering.

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This book can be treated as a first book in learning Signals and systems, and other courses such as discrete time signal

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This book is about the study of engineering signals and systems, from a discipline-neutral approach. It is a fundamental starting point in the field of engineering, and serves as the basic material that other

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Designed for the undergraduate course on Signals and Systems, this text provides a comprehensive overview of fundamental concepts and their practical implications.

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Supported by crisp and concise theory, a plethora of numerical problems and MATLAB exercises, this book helps reader learn this important subject in the easiest manner.

The book, in its Second Edition, continues to provide a comprehensive treatment of signals and systems commencing from an elementary level and going on to a thorough analysis of mathematical tools such as Fourier transform, Laplace transform, Z-transform and Discrete-time Fourier transform. The concepts of convolution and correlation and their relationship have been explained in a clear and lucid manner. Both continuous-time and discrete-time signals and systems have been covered, and thoroughly supported with adequate number of explained examples. The book is intended for the BE/BTech students of Electrical Engineering, Electronics and Communication Engineering, Computer Science and Engineering, Information Communication Technology (ICT), Telecommunication Engineering and Biomedical Engineering. NEW TO THIS EDITION • A new chapter on MATLAB programming for generation of continuous-time and discrete-time series is added. • MATLAB solutions have been given for stability testing of discrete-time systems. • Sections on simple electronic systems realization have been added in existing Chapter 6. • More solved examples, problems and multiple choice questions, have been added in almost every chapter to reinforce the understanding of the

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theory. AUDIENCE • BE/BTech students of Electrical Engineering, Electronics and Communication Engineering, Computer Science and Engineering, Information Communication Technology (ICT), Telecommunication Engineering and Biomedical Engineering.

Signals and systems enjoy wide application in industry and daily life, and understanding basic concepts of the subject area is of importance to undergraduates majoring in engineering. With rigorous mathematical deduction, this introductory text book is helpful for students who study communications engineering, electrical and electronic engineering, and control engineering. Additionally, supplementary materials are provided for self-learners.

Concisely covers all the important concepts in an easy-to-understand way Gaining a strong sense of signals and systems fundamentals is key for general proficiency in any electronic engineering discipline, and critical for specialists in signal processing, communication, and control. At the same time, there is a pressing need to gain mastery of these concepts quickly, and in a manner that will be immediately applicable in the real word. Simultaneous study of both continuous and discrete signals and systems presents a much easy path to understanding signals and systems analysis. In A Practical Approach to Signals and Systems, Sundararajan details the

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discrete version first followed by the corresponding continuous version for each topic, as discrete signals and systems are more often used in practice and their concepts are relatively easier to understand. In addition to examples of typical applications of analysis methods, the author gives comprehensive coverage of transform methods, emphasizing practical methods of analysis and physical interpretations of concepts. Gives equal emphasis to theory and practice Presents methods that can be immediately applied Complete treatment of transform methods Expanded coverage of Fourier analysis Self-contained: starts from the basics and discusses applications Visual aids and examples makes the subject easier to understand End-of-chapter exercises, with a extensive solutions manual for instructors MATLAB software for readers to download and practice on their own Presentation slides with book figures and slides with lecture notes A Practical Approach to Signals and Systems is an excellent resource for the electrical engineering student or professional to quickly gain an understanding of signal analysis concepts - concepts which all electrical engineers will eventually encounter no matter what their specialization. For aspiring engineers in signal processing, communication, and control, the topics presented will form a sound foundation to their future study, while allowing them to quickly move on to more

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advanced topics in the area. Scientists in chemical, mechanical, and biomedical areas will also benefit from this book, as increasing overlap with electrical engineering solutions and applications will require a working understanding of signals. Compact and self contained, A Practical Approach to Signals and Systems be used for courses or self-study, or as a reference book.

This book is a self-contained introduction to the theory of signals and systems, which lies at the basis of many areas of electrical and computer engineering. In the seventy short lectures, the book is formatted to facilitate self-learning and to provide easy reference, the book covers such topics as linear time-invariant (LTI) systems, the Fourier transform, the Laplace Transform and its application to LTI differential systems, state-space systems, the z-transform, signal analysis using MATLAB, and the application of transform techniques to communication systems. A wide array of technologies, including feedback control, analog and discrete-time filters, modulation, and sampling systems are discussed in connection with their basis in signals and systems theory. The accompanying CD-ROM includes applets, source code, sample examinations, and exercises with selected solutions.

New edition of a text intended primarily for

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the undergraduate courses on the subject which are frequently found in electrical engineering curricula--but the concepts and techniques it covers are also of fundamental importance in other engineering disciplines. The book is structured to develop in parallel the methods of analysis for continuous-time and discrete-time signals and systems, thus allowing exploration of their similarities and differences. Discussion of applications is emphasized, and numerous worked examples are included. Annotation copyrighted by Book News, Inc., Portland, OR

This comprehensive text on control systems is designed for undergraduate students pursuing courses in electronics and communication engineering, electrical and electronics engineering, telecommunication engineering, electronics and instrumentation engineering, mechanical engineering, and biomedical engineering. Appropriate for self-study, the book will also be useful for AMIE and IETE students. Written in a student-friendly readable manner, the book explains the basic fundamentals and concepts of control systems in a clearly understandable form. It is a balanced survey of theory aimed to provide the students with an in-depth insight into system behaviour and control of continuous-time control systems. All the solved and unsolved problems in this book are classroom tested, designed to illustrate the topics in a clear and thorough way. KEY FEATURES :

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Includes several fully worked-out examples to help students master the concepts involved. Provides short questions with answers at the end of each chapter to help students prepare for exams confidently. Offers fill in the blanks and objective type questions with answers at the end of each chapter to quiz students on key learning points. Gives chapter-end review questions and problems to assist students in reinforcing their knowledge.

This textbook covers the fundamental theories of signals and systems analysis, while incorporating recent developments from integrated circuits technology into its examples. Starting with basic definitions in signal theory, the text explains the properties of continuous-time and discrete-time systems and their representation by differential equations and state space. From those tools, explanations for the processes of Fourier analysis, the Laplace transform, and the z-Transform provide new ways of experimenting with different kinds of time systems. The text also covers the separate classes of analog filters and their uses in signal processing applications. Intended for undergraduate electrical engineering students, chapter sections include exercise for review and practice for the systems concepts of each chapter. Along with exercises, the text includes MATLAB-based examples to allow readers to experiment with

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signals and systems code on their own. An online repository of the MATLAB code from this textbook can be found at github.com/springer-math/signals-and-systems.

This book provides a rigorous treatment of deterministic and random signals. It offers detailed information on topics including random signals, system modelling and system analysis. System analysis in frequency domain using Fourier transform and Laplace transform is explained with theory and numerical problems. The advanced techniques used for signal processing, especially for speech and image processing, are discussed. The properties of continuous time and discrete time signals are explained with a number of numerical problems. The physical significance of different properties is explained using real-life examples. To aid understanding, concept check questions, review questions, a summary of important concepts, and frequently asked questions are included. MATLAB programs, with output plots and simulation examples, are provided for each concept. Students can execute these simulations and verify the outputs.

The fast and easy way to learn signals and systems Get a working knowledge of signal processing and systems--even if you don't have formal training, unlimited time, or a genius IQ. Signals and Systems Demystified offers an effective, illuminating, and

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entertaining way to learn this essential electrical engineering subject. First, you'll learn methods used to calculate energy and power in signals. Next, you'll study signals in the frequency domain using Fourier analysis. Other topics covered include amplitude, frequency, and phase modulation, spectral analysis, convolution, the Laplace transform, and the z-transform. Packed with hundreds of sample equations and explained solutions, and featuring end-of-chapter quizzes and a final exam, this book will teach you the fundamentals of signals and systems in no time at all. Simple enough for a beginner, but challenging enough for an advanced student, Signals and Systems Demystified is your shortcut to mastering this complex subject. This hands-on, self-teaching text offers:

- An easy way to understand signal processing and systems
- Hundreds of worked examples with solutions
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