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De nition 1 A signal is the variation of a physical, or non-physical, quantity with respect to one or more independent variable(s). Signals typically carry information that is somehow relevant for some purpose. Ex: Electrical signals : voltage as a function of time Ex: Acoustic signals : acoustic pressure as a function of time

Lecture Notes EE301 Signals and Systems I
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SIGNAL TRANSMISSION THROUGH LINEAR SYSTEMS Linear system, impulse response, Response of a linear system, Linear time-invariant (LTI) system, Linear time variant (LTV) system, the Transfer function of an LTI system.

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• Frequency-domain aspects of signals and systems – Begins with signals that are a sum of sinusoids, then addresses the Fourier series representation of periodic signals, the Fourier transform of nonperiodic signals, and the use of the Fourier transform in the study of signal modulation.

Kamen & Heck, Fundamentals of Signals and Systems Using ...
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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 ?glectures,?h 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 fi lters, 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.

The aim of this book is the study of signals and deterministic systems, linear, time-invariant, finite dimensions and causal. A set of useful tools is selected for the automatic and signal processing and methods of representation of dynamic linear systems are exposed, and analysis of their behavior. Finally we discuss the estimation, identification and synthesis of control laws for the purpose of stabilization and regulation. The study of signal characteristics and properties systems and knowledge of mathematical tools and treatment methods and analysis, are lately more and more importance and continue to evolve. The reason is that the current state of technology, particularly electronics and computing, enables the production of very advanced processing systems, effective and less expensive despite the complexity.

"Signals and Systems: Analysis Using Transform Methods and MATLAB captures the mathematical beauty of signals and systems and offers a student-centered, pedagogically driven approach. The author has a clear understanding of the issues students face in learning the material and does a superior job of addressing these issues. The book is intended to cover a one-semester sequence in Signals and Systems for juniors in engineering. This text is created in modular format, so instructors can select chapters within the framework that they teach this course. In addition, this text offers ARIS. McGraw-Hill's Homework Management System. 100 Static problems are offered for the Roberts text." -- Publisher.

Textbook providing a solid foundation in both signal processing and systems modeling using a building block approach.

New edition of a text intended primarily for 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

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.

With a strong emphasis on solving problems and exploring concepts, this guidebook delivers an accessible yet comprehensive introduction to continuous-time and discrete-time signals and systems. Discusses how to download signals (time series) from the Web and analyze the data. Includes details on common types of digital filters, such as moving average and exponential moving average filters, with applications to filtering data downloaded from the Web. Addresses signal analysis using the DFT to extract the dominant cyclic components of a signal. Addresses the issue of noise, which often arises in engineering, business, finance, and other fields. For those interested in learning more about signals and systems.

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