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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

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visual understanding of the concepts involved. This book can be used at many levels, from the student who hasn't heard of a spectrum before, to the experienced worker who has only a fuzzy understanding of the notion of an impulse response. The authors have tried to keep the underlying conceptual structure of signals and systems analysis explicit, in the hope that even some readers with advanced technical training might find clarification of the basic principles. Notable features include over 300 figures integrated closely with the text, all drawn specifically. Exercises are provided at the end of most chapters.

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This book is primarily intended for junior-level students who take the courses on 'signals and systems'. It may be useful as a reference text for practicing engineers and scientists who want to acquire some of the concepts required for signal processing. The readers are assumed to know the basics about linear algebra, calculus (on complex numbers, differentiation, and integration), differential equations, Laplace R transform, and MATLAB . Some knowledge about circuit systems will be helpful. Knowledge in

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signals and systems is crucial to students majoring in Electrical Engineering. The main objective of this book is to make the readers prepared for studying advanced subjects on signal processing, communication, and control by covering from the basic concepts of signals and systems to manual-like introductions of how to use the MATLAB and Simulink tools for signal analysis and filter design. The features of this book can be summarized as follows: 1. It not only introduces the four Fourier analysis tools, CTFS (continuous-time Fourier series), CTFT (continuous-time Fourier transform), DFT (discrete-time Fourier transform), and DTFS (discrete-time Fourier series), but also illuminates the relationship among them so that the readers can realize why only the DFT of the four tools is used for practical spectral analysis and why/how it differs from the other ones, and further, think about how to reduce

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the difference to get better information about the spectral characteristics of signals from the DFT analysis.

This book provides a complete overview of the foundations of continuous-time systems, and introduces the "new circuit theory" of discrete-time systems. It looks at the concepts and analysis tools associated with signal spectra--focusing on periodic signals and the Discrete Fourier Transform, making readers aware of the capabilities of MATLAB. Topics include analysis techniques, frequency response, standard filters, spectral analysis, discrete-time signals and systems, IRR and FIR filter designs, and sampling strategies. For those involved in electrical, computer, and telecommunications engineering.

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A classic Schaum's Outline, thoroughly updated to match the latest course scope and sequence. The ideal review for the thousands of engineering students who need to know the signals and systems concepts needed in almost all electrical engineering fields and in many other scientific and engineering disciplines. About the Book This updated edition of the successful outline in signals and systems is revised to conform to the current curriculum. Schaum's Outline of Signals and Systems mirrors the standard course in scope and sequence. It helps students understand basic concepts and offers problem-solving practice in topics such as transform techniques for the analysis of LTI systems, the LaPlace transform and its application to continuous-time and discrete-time LTI systems, Fourier analysis of signals and systems, and the state space or state variable concept and analysis for both discrete-time and continuous-

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Taiwan University and M.S. and Ph.D. from Case Institute of Technology. He has published several books which include Schaum's Outline of Analog and Digital Communications and Schaum's Outline of Probability, Random Variables, and Random Processes.

A typical undergraduate electrical engineering curriculum incorporates a signals and systems course. The widely used approach for the laboratory component of such courses involves the utilization of MATLAB to implement signals and systems concepts. This lecture series book presents a newly developed laboratory paradigm where MATLAB codes are made to run on smartphones,

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which most students already possess. This smartphone-based approach enables an anywhere-anytime platform for students to conduct signals and systems experiments. This book covers the laboratory experiments that are normally covered in signals and systems courses and discusses how to run MATLAB codes for these experiments on both Android and iOS smartphones, thus enabling a truly mobile laboratory environment for students to learn the implementation aspects of signals and systems concepts. A zipped file of the codes discussed in the book can be acquired via the website.

The book is designed to serve as a textbook for courses offered to undergraduate and graduate students enrolled in Electrical Engineering. The first edition of this book was published in 2014.



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As there is a demand for the next edition, it is quite natural to take note of the several advances that have occurred in the subject over the past five years. This is the prime motivation for bringing out a revised second edition with a thorough revision of all the chapters. The book presents a clear and comprehensive introduction to signals and systems. For easier comprehension, the course contents of all the chapters are in sequential order. Analysis of continuous-time and discrete-time signals and systems are done separately for easy understanding of the subjects. The chapters contain over seven hundred numerical examples to understand various theoretical concepts. This textbook also includes numerical examples that were appeared in recent examinations and presented in a graded manner. The topics such as the representation of signals, convolution, Fourier Series and Fourier Transform, Laplace transform, Z-

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transform, and state-space analysis are explained with a large number of numerical examples in the book. The detailed coverage and pedagogical tools make this an ideal textbook for students and researchers enrolled in electrical engineering and related courses.

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