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Circuits and systems a modern approach HRW series in electrical and computer engineering Author(S) Athanasios Papoulis (Author) Publication Data New York: Holt, Rinehart and Winston Publication Date 1980 Edition NA Physical Description viii, 435 p. Subject Engineering Subject Headings Electric circuits Electric networks

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General linear systems theory is well treated in Papoulis, using electrical circuits as examples, and there are plenty of end-of-the-chapter exercises and a fair amount of solved exercises along the chapters.

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Papoulis contributed in the areas of signal processing, communications, and signal and system theory. His classic book Probability, Random Variables, and Stochastic Processes [4] is used as a textbook in many graduate-level probability courses in electrical engineering departments all over the world.

## ~~Athanasios Papoulis Wikipedia~~

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The standard is Oppenheim & Wilsky "Signals and Systems", Prentice-Hall, good introductory/medium book on the subject, both two editions are good. Other books I like (perhaps out of print) are Papoulis' "Circuits and Systems" from HRW and Siebert'...

~~What are some good books on Signal and Systems? — Quora~~

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Athanasios Papoulis' classic text was the first to present digital techniques as an integral part of a unified course in system theory and design, rather than as a separate unit. The enduring success of Circuits and Systems undoubtedly is due in large part to the author's concentration on fundamental ideas explained in the context of simple illustrations. The text develops analog systems parallel to digital systems, emphasizes the concepts of linearity, superposition, impulse response, frequency response, and system function. Laplace transforms and z-transforms are treated briefly, but completely, and the introduction to digital and sampled-analog simulation is based on the approximation of the convolution integral by a sum. The development of the material as a deductive discipline strengthens the student's analytical ability in the engineering course.

Fourier analysis has many scientific applications - in physics, number theory, combinatorics, signal processing, probability theory, statistics, option pricing, cryptography, acoustics, oceanography, optics and diffraction, geometry, and other areas. In signal processing and related fields, Fourier analysis is typically thought of as decomposing a signal into its component frequencies and their amplitudes. This practical, applications-based professional handbook comprehensively covers the theory and applications of Fourier Analysis, spanning topics from engineering mathematics, signal processing and related multidimensional transform theory, and quantum physics to elementary deterministic finance and even the foundations of western music theory. This handbook's audience will be composed of professionals in the engineering and applied mathematics communities, advanced undergraduate and beginning graduate students and academics in electrical engineering, computer science, statistics, and applied mathematics. It is meant to replace several less comprehensive volumes on the subject - such as *Processing of Multidimensional Signals* by Alexandre Smirnov, *Modern Sampling Theory* by John J. Benedetto and Paulo J.S.G. Ferreira, *Vector Space Projections* by Henry Stark and Yongyi Yang, and *Fourier Analysis and Imaging* by Ronald N. Bracewell - which are often used as textbooks. So in addition to being primarily used as a professional handbook, it includes sample problems and their solutions at the end of each section and thus serves as a textbook for advanced undergraduate students and beginning graduate students in courses such as: *Multidimensional Signals and Systems*, *Signal Analysis*, *Introduction to Shannon Sampling and Interpolation Theory*, *Random Variables and Stochastic Processes*, and *Signals and Linear Systems*.

*Multirate Switched-Capacitor Circuits for 2-D Signal Processing* introduces the concepts of analog multirate signal processing for the efficient implementation of two-dimensional (2-D) filtering in integrated circuit form, particularly from the viewpoints of silicon area and power dissipation. New 2-D switched-capacitor (SC) networks and design techniques are presented, both with finite impulse response (FIR) and infinite impulse response (IIR) with separable denominator polynomial, which offer simpler and more systematic synthesis procedures than currently available design techniques for 2-D analog filters. Since they are in the discrete-time domain, the book can be also referred to the digital multirate signal processing. A 2-D SC image processor that realizes both  $(2 \times 2)$ nd-order Butterworth lowpass and highpass filtering functions for video image signals was realized as a prototype integrated circuit implemented in 1.0- $\mu\text{m}$  CMOS technology. The experimental characterization of this prototype chip demonstrated the feasibility of real-time analog multirate 2-D image processing with equivalent 8-bits accuracy, using only  $2.5 \times 3.0 \text{ mm}^2$  of silicon area and dissipating as little as 85 mW at 5V supply and 18 MHz sampling rate. This indicates that for moderate accuracy and low to moderate complexity of the filtering function, a fully multirate analog implementation has a potential to achieve a more competitive implementation than an alternative digital VLSI implementation. However, for high accuracy and/or higher processing complexity, not only the relative overhead cost of the front-end and back-end converters will diminish but also the implementation of the processing core in digital VLSI will benefit more of technology scaling to achieve higher density of integration. *Multirate Switched-Capacitor Circuits for 2-D Signal Processing* is essential reading for practicing analog design engineers and researchers in the field. It is also suitable as a text for an advanced course on the subject.

*Advanced Topics in Shannon Sampling and Interpolation Theory* is the second volume of a textbook on signal analysis solely devoted to the topic of sampling and restoration of continuous time signals and images. Sampling and reconstruction are fundamental problems in any field that deals with real-time signals or images, including communication engineering, image processing, seismology, speech recognition, and digital signal processing. This second volume includes contributions from leading researchers in the field on such topics as Gabor's signal expansion, sampling in optical image formation, linear prediction theory, polar and spiral sampling theory, interpolation from nonuniform samples, an extension of Papoulis's generalized sampling expansion to

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higher dimensions, and applications of sampling theory to optics and to time-frequency representations. The exhaustive bibliography on Shannon sampling theory will make this an invaluable research tool as well as an excellent text for students planning further research in the field.

This new resource provides a comprehensive and concise introduction of the underpinnings and fundamentals of electrical circuits. Models, the limitations of models, and examples are clearly explained. The book examines circuits with static sources and explains how to reduce any circuit to a system of linear equations. Moreover, the book presents dynamic sources that exhibit transient phenomena that require the solution of linear differential equations. MATLAB code is used throughout the book to help solve key problems and assist engineers in the field. Additionally, this hands-on volume explores circuits with sinusoidal sources also known as the AC paradigm. The book provides another key mathematical tool known as a phasor which are mathematical objects based on complex number theory. The book emphasizes solutions for computing power, interpreting power and energy, and compensating electrical systems if the power factor is too low. Professionals are offered design guidance throughout the book with many real-world examples.

This updated and expanded new edition equips students with a thorough understanding of the state-of-the-art in radio frequency (RF) design and the practical knowledge and skills needed in industry. Introductory and advanced topics are covered in-depth, with clear step-by-step explanations, including core topics such as RF components, signals and systems, two-ports, noise, distortion, low-noise amplifiers, power amplifiers, and transceiver architectures. New material has been added on wave propagation, skin effect, antennas, mixers and oscillators, and digital PAs and transmitters. Two new chapters detail the analysis and design of RF and IF filters (including SAW and FBAR duplexers and N-path filters), phase-locked loops, frequency synthesizers, digital PLLs, and frequency dividers. Theory is linked to practice through real-world applications, practical design examples, and exploration of the pros and cons of various topologies. Over 250 homework problems are included, with solutions and lecture slides for instructors available online. With its uniquely practical and intuitive approach, this is an essential text for graduate courses on RFICs and a useful reference for practicing engineers.

Solving circuit problems is less a matter of knowing what steps to follow than why those steps are necessary. And knowing the why stems from an in-depth understanding of the underlying concepts and theoretical basis of electric circuits. Setting the benchmark for a modern approach to this fundamental topic, Nassir Sabah's *Electric Circuits and Signals* supplies a comprehensive, intuitive, conceptual, and hands-on introduction with an emphasis on creative problem solving. A Professional Education Ideal for electrical engineering majors as a first step, this phenomenal textbook also builds a core knowledge in the basic theory, concepts, and techniques of circuit analysis, behavior, and operation for students following tracks in such areas as computer engineering, communications engineering, electronics, mechatronics, electric power, and control systems. The author uses hundreds of case studies, examples, exercises, and homework problems to build a strong understanding of how to apply theory to problems in a variety of both familiar and unfamiliar contexts. Your students will be able to approach any problem with total confidence. Coverage ranges from the basics of dc and ac circuits to transients, energy storage elements, natural responses and convolution, two-port circuits, Laplace and Fourier transforms, signal processing, and operational amplifiers. Modern Tools for Tomorrow's Innovators Along with a conceptual approach to the material, this truly modern text uses PSpice simulations with schematic Capture® as well as MATLAB® commands to give students hands-on experience with the tools they will use after graduation. Classroom Extras When you adopt *Electric Circuits and Signals*, you will receive a complete solutions manual along with its companion CD-ROM supplying additional material. The CD contains a Word™ file for each chapter providing bulleted, condensed text and figures that can be used as class slides or lecture notes.

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This two-volume introductory text on modern network and system theory establishes a firm analytic foundation for the analysis, design and optimization of a wide variety of passive and active circuits. Volume 1 is devoted to the fundamentals and Volume 2 to Fourier analysis and state equations. Its prerequisites are basic calculus, dc and ac networks, matrix algebra, and some familiarity with linear differential equations. The objective of the book is to select and feature theories and concepts of fundamental importance that are amendable to a broad range of applications. A special feature of the book is that it bridges the gap between theory and practice, with abundant examples showing how theory solves problems. Recognizing that computers are common tools in modern engineering, canned computer programs are developed throughout the text, both in the time domain and the frequency domain. In addition to the usual materials in a linear networks and systems book, advanced topics on functions of a matrix that are closely related to the solution of the state equation are included. The reader will find the study of this material rewarding.

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