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digital frequency synthesizers from microwave and wireless applications, fully updated to reflect the most modern integrated circuits and semiconductors

Microwave and Wireless Synthesizers: Theory and Design, Second Edition, remains the standard text on the subject by providing complete and up-to-date coverage of both practical and theoretical aspects of modern frequency synthesizers and their components. Featuring contributions from leading experts in the field, this classic volume describes loop fundamentals, noise and spurious responses, special loops, loop components, multiloop synthesizers, and more. Practical synthesizer examples illustrate the design of a high-performance hybrid synthesizer and

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performance measurement techniques—offering readers clear instruction on the various design steps and design rules. The second edition includes extensively revised content throughout, including a modern approach to dealing with the noise and spurious response of loops and updated material on digital signal processing and architectures. Reflecting today's technology, new practical and validated examples cover a combination of analog and digital synthesizers and hybrid systems. Enhanced and expanded chapters discuss implementations of direct digital synthesis (DDS) architectures, the voltage-controlled oscillator (VCO), crystal and other high-Q based oscillators, arbitrary waveform generation,

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vector signal generation, and other current tools and techniques. Now requiring no additional literature to be useful, this comprehensive, one-stop resource: Provides a fully reviewed, updated, and enhanced presentation of microwave and wireless synthesizers Presents a clear mathematical method for designing oscillators for best noise performance at both RF and microwave frequencies Contains new illustrations, figures, diagrams, and examples Includes extensive appendices to aid in calculating phase noise in free-running oscillators, designing VHF and UHF oscillators with CAD software, using state-of-the-art synthesizer chips, and generating millimeter wave frequencies using the delay line principle Containing numerous



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designs of proven circuits and more than 500 relevant citations from scientific journal and papers, Microwave and Wireless Synthesizers: Theory and Design, Second Edition, is a must-have reference for engineers working in the field of radio communication, and the perfect textbook for advanced electrical engineering students.

The field of electrical measurement continues to grow, with new techniques developed each year. From the basic thermocouple to cutting-edge virtual instrumentation, it is also becoming an increasingly "digital" endeavor. Books that attempt to capture the state-of-the-art in electrical measurement are quickly

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outdated. Recognizing the need for a tex

A handbook of analog-to-digital and digital-to-analog converters -- and the circuits and systems that use them -- from the world leader in conversion products.

Delivering the best possible solution for phase noise and outputpower efficiency in oscillators This complete and thorough analysis of microwave oscillatorsinvestigates all aspects of design, with particular emphasis onoperating conditions, choice of resonators and transistors, phasenoise, and output power. It covers both bipolar transistors andFETs. Following the authors' guidance, readers learn how to

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design microwave oscillators and VCOs that can be tuned over a very wide frequency range, yet have good phase noise, are low cost, and are small in size. All the essential topics in oscillator design and development are covered, including:

- \* Device and resonator technology
- \* Study of noise sources
- \* Analysis methods
- \* Design, calculation, and optimization methodologies
- \* Practical design of single and coupled oscillators

While most of the current literature in the field concentrates on classic design strategies based on measurements, simulation, and optimization of output power and phase noise, this text offers a unique approach that focuses on the complete understanding of the design

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process. The material demonstrates important design rules starting with the selection of best oscillator topology, choice of transistors, and complete phase noise analysis that leads to optimum performance of all relevant oscillator features. Also included are CMOS oscillators, which recently have become important in cellular applications. For readers interested in specialized applications and topics, a full chapter provides all the necessary references. The contents of the text fall into two major categories: \* Chapters 1 through 9 deal with a very detailed and expanded single resonator oscillator, including a thorough treatment of both nonlinear analysis and phase noise \* Chapters 10 and 11 use the knowledge

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obtained and apply it to multiple coupled oscillators (synchronized oscillators) This text is partially based on research sponsored by the Defense Advanced Research Projects Agency (DARPA) and the United States Army and conducted by Synergy Microwave Corporation. With the wealth of information provided for the analysis and practical design of single and synchronized low-noise microwave oscillators, it is recommended reading for all RF microwave engineers. In addition, the text's comprehensive, step-by-step approach makes it an excellent graduate-level textbook.

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Teaching text developed by U.S. Air Force Academy and designed as a first course emphasizes the universal variable formulation. Develops the basic two-body and n-body equations of motion; orbit determination; classical orbital elements, coordinate transformations; differential correction; more. Includes specialized applications to lunar and interplanetary flight, example problems, exercises. 1971 edition.

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