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To enable fresh designers, like students
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structuring the analog design process is of
utmost importance. Structured Electronic
Design: Negative-Feedback Amplifiers

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presents a design methodology for negative-feedback amplifiers. The design methodology enables to synthesize a topology and to, at the same time, optimize the performance of that topology.

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design is one of the more difficult aspects of electrical engineering. The main reason is the apparently vague decisions an experienced designer makes in optimizing his circuit. To enable fresh designers, like students electrical engineering, to become acquainted with analog circuit design, structuring the analog design process is of utmost importance ...

Analog design is one of the more difficult aspects of electrical engineering. The main reason is the apparently vague decisions an experienced designer makes in optimizing his circuit. To enable fresh designers, like students electrical engineering, to become acquainted with analog circuit design, structuring the analog design process is of utmost importance. Structured Electronic Design:

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Negative-Feedback Amplifiers presents a design methodology for negative-feedback amplifiers. The design methodology enables to synthesize a topology and to, at the same time, optimize the performance of that topology. Key issues in the design methodology are orthogonalization, hierarchy and simple models.

Orthogonalization enables the separate optimization of the three fundamental quality aspects: noise, distortion and bandwidth. Hierarchy ensures that the right decisions are made at the correct level of abstraction. The use of simple models, results in simple calculations yielding maximum-performance indicators that can be used to reject wrong circuits relatively fast. The presented design methodology divides the design of negative-feedback amplifiers in six independent steps. In the first two steps, the feedback network is designed. During

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those design steps, the active part is assumed to be a nullor, i.e. the performance with respect to noise, distortion and bandwidth is still ideal. In the subsequent four steps, an implementation for the active part is synthesized. During those four steps the topology of the active part is synthesized such that optimum performance is obtained. Firstly, the input stage is designed with respect to noise performance. Secondly, the output stage is designed with respect to clipping distortion. Thirdly, the bandwidth performance is designed, which may require the addition of an additional amplifying stage. Finally, the biasing circuitry for biasing the amplifying stages is designed. By dividing the design in independent design steps, the total global optimization is reduced to several local optimizations. By the specific sequence of

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the design steps, it is assured that the local optimizations yield a circuit that is close to the global optimum. On top of that, because of the separate dedicated optimizations, the resource use, like power, is tracked clearly. Structured Electronic Design: Negative-Feedback Amplifiers presents in two chapters the background and an overview of the design methodology. Whereafter, in six chapters the separate design steps are treated with great detail. Each chapter comprises several exercises. An additional chapter is dedicated to how to design current sources and voltage source, which are required for the biasing. The final chapter in the book is dedicated to a thoroughly described design example, showing clearly the benefits of the design methodology. In short, this book is valuable for M.Sc.-curriculum Electrical Engineering students, and of course, for researchers

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and designers who want to structure their knowledge about analog design further.

Analog design is one of the more difficult aspects of electrical engineering. The main reason is the apparently vague decisions an experienced designer makes in optimizing his circuit. To enable fresh designers, like students electrical engineering, to become acquainted with analog circuit design, structuring the analog design process is of utmost importance. Structured Electronic Design: Negative-Feedback Amplifiers presents a design methodology for negative-feedback amplifiers. The design methodology enables to synthesize a topology and to, at the same time, optimize the performance of that topology. Key issues in the design methodology are orthogonalization, hierarchy and simple models. Orthogonalization enables the separate

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Analog design still has, unfortunately, a flavor of art. Art can be beautiful. However, art in itself is difficult to teach to students and difficult to transfer from

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experienced analog designers to new trainee designers in companies. Structured Electronic Design: High-Performance Harmonic Oscillators and Bandgap References aims to systemize analog design. The use of orthogonalization of the design of the fundamental quality aspects (noise, distortion, and bandwidth) and hierarchy in the subsequent design steps, enables designers to achieve high-performance designs, in a relatively short time. As a result of the systematic design procedure, the effect of design decisions on the circuit performance is made clear. Additionally, the use of resources for reaching a specified performance is tracked. This book, therefore, describes the structured electronic design of high-performance harmonic oscillators and bandgap references. The structured design of harmonic oscillators includes the maximization of the carrier-to-noise ratio

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by means of tapping, i.e. an impedance adaption method for noise matching. The bandgap reference, a popular implementation of a voltage reference, is studied via the unusual concept of the linear combination of base-emitter voltages. The presented method leads to the design of high-performance references in CMOS and Bipolar technology. Using this concept, on a high level of abstraction the quality with respect to, for instance, noise and power-supply rejection can be identified. In this book, it is shown with several design examples that this method provides an excellent starting point for the design of high-performance bandgap references. Auxiliary to the harmonic-oscillator and bandgap reference design are the negative- feedback amplifiers. In this book the systematic design of the dynamic behavior is emphasized. By means of the identification of the

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dominant poles, it is possible to give an upper limit of the attainable bandwidth, even before the real frequency compensation is accomplished. Structured Electronic Design: High-Performance Harmonic Oscillators and Bandgap References is a valuable book for researchers and designers, as well as students in the field of analog design. It helps both the experienced and trainee designer to come to grips with the design of analog circuits. The presented method is illustrated by several well- described design examples.

This book is a compilation and a collection of tutorials and recent advances in the use of nullors (combinations of nullators and norators) and pathological mirrors in analog circuit and system design. It highlights the basic theory, trends and challenges in the field, making

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it an excellent reference resource for researchers and designers working in the synthesis, analysis, and design of analog integrated circuits. With its tutorial character, it can also be used for teaching. Singular elements such as nullors and pathological mirrors can arguably be considered as universal blocks since they can represent all existing analog building blocks, and they allow complex integrated circuits to be designed simply and effectively. These pathological elements are now used in a wide range of applications in modern circuit/system theory, and also in design practice.

As the frequency of communication systems increases and the dimensions of transistors are reduced, more and more stringent performance requirements are placed on analog circuits. This is a trend that is bound to continue for the

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foreseeable future and while it does, understanding performance trade-offs will constitute a vital part of the analog design process. It is the insight and intuition obtained from a fundamental understanding of performance conflicts and trade-offs, that ultimately provides the designer with the basic tools necessary for effective and creative analog design. Trade-offs in Analog Circuit Design, which is devoted to the understanding of trade-offs in analog design, is quite unique in that it draws together fundamental material from, and identifies interrelationships within, a number of key analog circuits. The book covers ten subject areas: Design methodology, Technology, General Performance, Filters, Switched Circuits, Oscillators, Data Converters, Transceivers, Neural Processing, and Analog CAD. Within these subject areas it deals with a wide diversity of trade-offs ranging from

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frequency-dynamic range and power, gain-bandwidth, speed-dynamic range and phase noise, to tradeoffs in design for manufacture and IC layout. The book has by far transcended its original scope and has become both a designer's companion as well as a graduate textbook. An important feature of this book is that it promotes an intuitive approach to understanding analog circuits by explaining fundamental relationships and, in many cases, providing practical illustrative examples to demonstrate the inherent basic interrelationships and trade-offs. Trade-offs in Analog Circuit Design draws together 34 contributions from some of the world's most eminent analog circuits-and-systems designers to provide, for the first time, a comprehensive text devoted to a very important and timely approach to analog circuit design.

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Today, wireless infrared transmission has entered our homes, offices, industry and health care, with applications in the field of remote control, telemetry, and local communication. This book is about the underlying technology. As it is an outgrowth of my Ph.D. thesis, the emphasis is on fundamental aspects rather than industrial aspects, like the standardization effort by the IrDA [7]. I guess that this is not a drawback, as, eventually, the laws of physics apply to all of us! As the applied radiation is not necessarily in the infrared, throughout the book we usually prefer the term optical transmission. As most equipment is battery-powered, the emphasis is on power optimization of the optical transmission system. System parameters as well as environmental parameters that determine the eventual transmission quality are identified, to facilitate well-reasoned system

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design. Many design rules, based on calculations, measurements and simulations are presented to help the designer push the performance close to the limits set by nature and the available technology. The first chapters introduce the subject and the present the scope of the book. Then, the basic transmission link is introduced in chapter 3, and strategies to optimize its signal-to-noise ratio are discussed. Lighting flicker is identified as a possible source of interference. Then, receiver noise and bandwidth are discussed in chapter 4, mainly based on the material presented in [66], [67], [69].

Despite the fact that in the digital domain, designers can take full benefits of IPs and design automation tools to synthesize and design very complex systems, the analog designers' task is still considered as a "handcraft", cumbersome and very time

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consuming process. Thus, tremendous efforts are being deployed to develop new design methodologies in the analog/RF and mixed-signal domains. This book collects 16 state-of-the-art contributions devoted to the topic of systematic design of analog, RF and mixed signal circuits. Divided in the two parts Methodologies and Techniques recent theories, synthesis techniques and design methodologies, as well as new sizing approaches in the field of robust analog and mixed signal design automation are presented for researchers and R/D engineers.

This book highlights key design issues and challenges to guarantee the development of successful applications of analog circuits. Researchers around the world share acquired experience and insights to develop advances in analog circuit design, modeling and simulation. The key

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contributions of the sixteen chapters focus on recent advances in analog circuits to accomplish academic or industrial target specifications.

Sensor technologies are a rapidly growing area of interest in science and product design, embracing developments in electronics, photonics, mechanics, chemistry, and biology. Their presence is widespread in everyday life, where they are used to sense sound, movement, and optical or magnetic signals. The demand for portable and lightweight sensors is relentless in several industries, from consumer electronics to biomedical engineering to the military. Smart Sensors for Industrial Applications brings together the latest research in smart sensors technology and exposes the reader to myriad applications that this technology has enabled. Organized into five parts, the

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book explores: Photonics and optoelectronics sensors, including developments in optical fibers, Brillouin detection, and Doppler effect analysis. Chapters also look at key applications such as oxygen detection, directional discrimination, and optical sensing. Infrared and thermal sensors, such as Bragg gratings, thin films, and microbolometers. Contributors also cover temperature measurements in industrial conditions, including sensing inside explosions. Magnetic and inductive sensors, including magnetometers, inductive coupling, and ferro-fluidics. The book also discusses magnetic field and inductive current measurements in various industrial conditions, such as on airplanes. Sound and ultrasound sensors, including underwater acoustic modem, vibrational spectroscopy, and photoacoustics. Piezoresistive, wireless, and electrical

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sensors, with applications in health monitoring, agrofood, and other industries. Featuring contributions by experts from around the world, this book offers a comprehensive review of the groundbreaking technologies and the latest applications and trends in the field of smart sensors.

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