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RF and Microwave Circuit Design Microwave Circuit Design 100 RF and Microwave Circuit Design 100 ADS Design Examples RF and Microwave Engineering ADS Example Book: Focused on RF and Microwave Design The Effect RF and Microwave Circuit Design High Frequency Circuit Design TIP 35: Enhancing Motivation for Change in Substance Use Disorder Treatment (Updated 2019) Carmela Full of Wishes Radar RF Circuit Design Material-Integrated Intelligent Systems 101 Trauma-Informed Interventions Frontiers in Physics - Rising Stars Asia Radio-Frequency Integrated-Circuit Engineering The Circuit AlGaIn/GaN-HEMT Power Amplifiers with Optimized Power-added Efficiency for X-band Applications Old New Thing Caste Metamaterials for Antenna Applications Printers' Ink; the ... Magazine of Advertising, Management and Sales Radar RF Circuit Design, Second Edition For the Strength of Youth CMOS RF Circuit Design for Reliability and Variability New Topics in Simulation and Modeling of RF Circuits The Metamorphosis Let's Meet a Police Officer Advertising & Selling Microwave Circuit Design Using Linear and Nonlinear Techniques Principles of Accounting Volume 1 - Financial Accounting Advertising and Selling Balanced Microwave Filters Microwave and RF Engineering Six Crimson Cranes Dark Matter Signal Integrity Characterization Techniques Advertising Law Antennas with Non-Foster Matching Networks Advertising for Television Sets

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Unlike many traditional textbooks on microwave and RF engineering written mainly for the classroom, this book adopts a practical, hands-on approach to quickly introduce and familiarize students and engineers new to this subject. Topics range from an introduction of lumped elements and transmission line components to multi-stage amplifier design. Theoretical concepts are explained through the real world computer models. The authors extensively include the use of electronic design automation tools to illustrate the foundation principles of microwave and RF engineering. This book introduces not only a solid understanding of microwave and RF engineering concepts but also more importantly how to use design automation tools to analyze, synthesize, simulate, tune and optimize these essential components in a design flow as practiced in the industry. Authors have designed the text to be a 'hands-on' book, loaded with practical examples. It stresses the importance of design automation techniques with heavy emphasis on Agilent's Genesys Linear Software suite. In addition to university and college students, engineers and technicians will find this text an invaluable reference to have in their library. The investment in learning the microwave and RF engineering foundation skills with design automation techniques taught in this book results in knowledge that remains relevant and sought-after for a long time to come. A mindbending, relentlessly surprising thriller from the author of the bestselling Wayward Pines trilogy. "Are you happy with your life?" Those are the last words Jason Dessen hears before the masked abductor knocks him unconscious. Before he awakens to find himself strapped to a gurney, surrounded by strangers in hazmat suits. Before a man Jason's never met smiles down at him and says, "Welcome back, my friend." In this world he's woken up to, Jason's life is not the one he knows. His wife is

not his wife. His son was never born. And Jason is not an ordinary college physics professor, but a celebrated genius who has achieved something remarkable. Something impossible. Is it this world or the other that's the dream? And even if the home he remembers is real, how can Jason possibly make it back to the family he loves? The answers lie in a journey more wondrous and horrifying than anything he could've imagined—one that will force him to confront the darkest parts of himself even as he battles a terrifying, seemingly unbeatable foe. Dark Matter is a brilliantly plotted tale that is at once sweeping and intimate, mind-bendingly strange and profoundly human—a relentlessly surprising science-fiction thriller about choices, paths not taken, and how far we'll go to claim the lives we dream of. Cogently addressing the future of signal integrity and the effect it will have on the data transmission industry as a whole, this all-inclusive guide addresses a wide array of technologies, from traditional digital data transmission to microwave measurements, and accessibly examines the gap between the two. Focusing on real world applications and providing a wide array of case studies that show how each technology can be used—from backplane design challenges to advanced error correction techniques—this guide addresses many of today's high-speed technologies while also providing excellent insight into their future direction. With numerous valuable lessons pertaining to the signal integrity industry, this resource is the ultimate must-read guide for any specialist in the design engineering field. An Instant New York Times Bestseller! In their first collaboration since the Newbery Medal- and Caldecott Honor-winning *Last Stop on Market Street*, Matt de la Peña and Christian Robinson deliver a poignant and timely new picture book that's sure to be an instant classic. When Carmela wakes up on her birthday, her wish has already come true--she's finally old enough to join her big brother as he does the family errands. Together, they travel through their neighborhood, past the crowded bus stop, the fenced-off repair shop, and the panadería, until they arrive at the Laundromat, where Carmela finds a lone dandelion growing in the pavement. But before she can blow its white fluff away, her brother tells her she has to make a wish. If only she can think of just the right wish to make . . . With lyrical, stirring text and stunning, evocative artwork, Matt de la Peña and Christian Robinson have crafted a moving ode to family, to dreamers, and to finding hope in the most unexpected places. Audisee® eBooks with Audio combine professional narration and text highlighting for an engaging read aloud experience! Let's Meet a Police Officer! Do you want to learn more about police cars? Police dogs? Other tools the police use? Then it's your lucky day! Officer Gabby is a police officer. She knows how to keep people safe. She shows a group of kids how she does her job. Three cheers for police officers! "Cartoon-style animated drawings in bright colors introduce diverse characters who will capture children's interest." —School Library Journal "In each book introducing a community-benefiting career, schoolchildren meet one adult to learn about his or her job; information includes the training required to become a firefighter, doctor, etc., daily routines, and primary responsibilities. The content is inclusive and up-to-date but delivered through vapid stories. Peppy computer-generated cartoons are amateur." - The Horn Book Guide Free downloadable series teaching guide available. The RF and Microwave Engineering book teaches mainly the theory of the RF and microwave circuit design with 100 Keysight ADS workspaces. The book is written mainly for students and practicing engineers who want to learn the basic theory of circuit design and also apply the theory to the design of some important circuits. The solutions of the examples are achieved using the powerful ADS software. The Author also uses other software such as MATLAB in designing the circuits. The RF and Microwave Engineering book prepares the new students to learn the ADS software which is one of today's most widely used software used by the world's leading companies to design ICs, RF Modules, and boards in every smart phone, Tablet, WiFi routers, as well as Radar and satellite communication systems. This new edition of a previous bestseller gives you practical techniques for optimizing RF and microwave circuits for applications in radar systems design, with an emphasis on current and emerging technologies. Completely updated with new material, the book shows you how to design RF components for radar systems and how to choose appropriate materials and packaging methods. It takes you through classic techniques, to the state of the art, and finally to emerging technologies. You will learn: How to design high-frequency circuits for use in radar applications How to integrate components while avoiding higher-level assembly issues and troubleshooting problems on the measurement bench How to properly simulate, build, assemble, and test high-frequency circuits How to debug issues with hardware on the bench How to connect microwave theory to practical circuit design Theory and practical information are provided while addressing topics ranging from heat removal to digital circuit integration. The book serves as a teaching aid for classic techniques that are still relevant today. It also demonstrates how these techniques are serving as the foundation for technologies to come. You will be equipped to consider future needs and emerging enabling technologies and confidently think (and design) outside the box to ensure future needs are met. The book also shows you how to incorporate modern design techniques often overlooked or underused, and will help you to better understand the capabilities and limitations of today's technology and the emerging technologies that are on the horizon to mitigate those limitations. This is a must-have resource for system-level radar designers who want to up their game in RF/microwave component design. It is also a great tool for RF/microwave engineers tasked or interested in designing components for radar systems. Students and new designers of radar components will also benefit and be well prepared to start designing immediately. This authoritative new resource presents practical techniques for optimizing RF and microwave circuits for applications in radar systems design with an emphasis on current and emerging technologies. Professionals learn how to design RF components for radar systems and how to choose appropriate materials and packaging methods. This book explains how to integrate components while avoiding higher-level assembly issues and troubleshooting problems on the measurement bench. Theory and practical information are provided while addressing topics ranging from heat removal to digital circuit integration. This book is divided into three sections: the first section introduces the basics of microwave design, including transmission line theory and common materials used in RF circuits. The methods for creating accurate device models for both passive and active circuits are presented. The second part details the design of power amplifiers, low noise amplifiers, and passive elements. Both conventional and state-of-the-art design techniques are included with ample 'tips and tricks.' The last section concludes with a focus on component integration providing details on design methods for military operations, high manufacturing yield, and preventing measurement issues. The revised RF and Microwave Circuit Design textbook adopts a practical approach to quickly introduce students and engineers to this fascinating subject. The author makes extensive use of the Electronic Design Automation (EDA) tools to illustrate the principles of RF and microwave circuit design and solve close to 100 ADS design examples. The text and images in this book are in grayscale. A hardback color version is available. Search for ISBN 9781680922929. Principles of Accounting is designed to meet the scope and sequence requirements of a two-semester accounting course that covers the fundamentals of financial and managerial accounting. This book is specifically designed to appeal to both accounting and non-accounting majors, exposing students to the core concepts of accounting in familiar ways to build a strong foundation that can be applied across business fields. Each chapter opens with a relatable real-life scenario for today's college student. Thoughtfully designed examples are presented throughout each chapter, allowing students to build on emerging accounting knowledge. Concepts are further reinforced through applicable connections to more detailed business processes. Students are immersed in the "why" as well as the "how" aspects of accounting in order to reinforce concepts and promote comprehension over rote memorization. Most antenna engineers are likely to believe that antennas are one technology that is more or less impervious to the rapidly advancing semiconductor industry. However, as demonstrated in this lecture, there is a way to incorporate active components into an antenna and transform it into a new kind of radiating structure that can take advantage of the latest advances in analog circuit design. The approach for making this transformation is to make use of non-Foster circuit elements in the matching network of the antenna. By doing so, we are no longer constrained by the laws of physics that apply to passive antennas. However, we must now design and construct very touchy active circuits. This new antenna technology is now in its infancy. The contributions of this lecture are (1) to summarize the current state-of-the-art in this subject, and (2) to introduce some new theoretical and practical tools for helping us to continue the advancement of this technology. The 100 ADS Design Examples is a hands-on step-by-step RF and microwave circuit design book for university students and a valuable resource for aspiring RF and microwave engineers. This book is valuable in that it marries RF and microwave circuit design theory with the practical examples using the Keysight's Advanced Design System (ADS) software. ADS is one of today's most widely used software by the world's leading companies to design ICs, RF Modules and boards in every smart phone, tablet, WiFi routers as well as Radar and satellite communication systems. Knowing the fundamentals and practical application of RF and microwave circuit design with ADS will broaden your potential career opportunities. Master all the 100 design examples and additional problems will help you to write your own ticket to a successful carrier. A dramatic shift is underway in the electronics design and test industry.

Traditionally, a design flow has been pretty linear: measure components and create models; use the models to design and simulate a circuit; then test the prototype. Each stage is separate and distinct. But we are headed toward a revolution to this traditional flow towards one that will require an entirely new level of integration to design and verify the new systems of the future. Design engineers will need to understand simulation software even more, as design will be inextricably connected with test in the future. This guide, the ADS Example Book: Focused on RF and Microwave Design is great for students, professors, and working engineers who want to learn RF and microwave design skills to keep up with the industry trend toward increasing use of simulation. It was written by engineers at Keysight Technologies. Great for beginners, the step-by-step screenshots demonstrate how to get started using Advanced Design System (ADS) without assuming any prior experience. After completing these demos, you will be able to: build your own Electromagnetic Simulation (EM); be able to use the ADS built-in Smith Chart for impedance matching; learn how to work with the ADS 3D substrate viewer to construct your substrate layers; work your way through the examples to design an amplifier and/or an active mixer. You can also learn how to tune and optimize your design, become familiar with ADS libraries, and quickly add components to your design. This book is 176 pages and contains 10 demo guides. Each guide is independent of the others, so it's easy to jump right into your topic of interest. Getting Started with ADSTuning and Optimization Harmonic Balance Simulation Planar Electromagnetic (EM) Simulation in ADS RF System Design Microwave Discrete and Microstrip Filter Design Discrete and Microstrip Coupler Design Microstrip and CPW Power Divider Design Microwave Amplifier Design and Smith Chart Utility for Z matching Network Active Mixer Design This work has arisen out of the strong demand for a superior power-added efficiency (PAE) of AlGaIn/GaN high electron mobility transistor (HEMT) high-power amplifiers (HPAs) that are part of any advanced wireless multifunctional RF-system with limited prime energy. Different concepts and approaches on device and design level for PAE improvements are analyzed, e.g. structural and layout changes of the GaN transistor and advanced circuit design techniques for PAE improvements of GaN HEMT HPAs. Unlike the many traditional textbooks written mainly for the classroom teaching, the High Frequency Circuit Design book can be taught in a classroom or in a computer lab where students can use a very low-cost or no-cost software in solving the many examples in the book. For example, the High Frequency Circuit Design book shows how to use the MATLAB Scripting in solving all the impedance matching examples in the book. This book introduces not only a solid understanding of the RF and microwave concepts and components but more importantly it shows how to use the software tools in the analysis and synthesis of these essential components in a design flow as practiced in industry. A brief organization of the book is as follows: In chapter 1, a thorough analysis of RF and microwave concepts and components are presented. In chapter 2, propagation of the plane waves in different media is introduced. Popular types of transmission lines such as coaxial, microstrip, stripline, and waveguides are defined and their parameters and performances are discussed. Microstrip bias feed and directional couplers are designed. In Chapter 3, derivation of RF and microwave network parameters, development and use of the network S parameters, and the movement of the lumped and distributed elements on the Smith chart are presented. In Chapter 4, the subject of resonant circuits and filters are thoroughly discussed and several resonators and filters are designed. In Chapter 5, the conditions for maximum power transfer and the equations for matching any two impedances are derived. Both analytical and graphical techniques are used to design narrowband and broadband impedance matching networks. In Chapter 6, analytic design equations for quarter-wave transformer and single-stub matching networks are derived. Narrowband and broadband distributed matching networks are designed. In Chapter 7, single-stage amplifiers are designed by utilizing two different impedance matching objectives. The first amplifier is designed for maximum gain where the input and the output are conjugately matched, the second amplifier is a low noise amplifier where the transistor is selectively mismatched to achieve a specific Noise Figure. NEW YORK TIMES BESTSELLER • A princess in exile, a shapeshifting dragon, six enchanted cranes, and an unspeakable curse... Drawing from fairy tales and East Asian folklore, this original fantasy from the author of Spin the Dawn is perfect for fans of Shadow and Bone. "A dazzling fairytale full of breathtaking storytelling." --Stephanie Garber, New York Times bestselling author of Caraval Shiori'anma, the only princess of Kiata, has a secret. Forbidden magic runs through her veins. Normally she conceals it well, but on the morning of her betrothal ceremony, Shiori loses control. At first, her mistake seems like a stroke of luck, forestalling the wedding she never wanted. But it also catches the attention of Raikama, her stepmother. A sorceress in her own right, Raikama banishes the young princess, turning her brothers into cranes. She warns Shiori that she must speak of it to no one: for with every word that escapes her lips, one of her brothers will die. Penniless, voiceless, and alone, Shiori searches for her brothers, and uncovers a dark conspiracy to seize the throne. Only Shiori can set the kingdom to rights, but to do so she must place her trust in a paper bird, a mercurial dragon, and the very boy she fought so hard not to marry. And she must embrace the magic she's been taught all her life to forswear--no matter what the cost. Weaving together elements of The Wild Swans, Cinderella, the legend of Chang E, and the Tale of the Bamboo Cutter, Elizabeth Lim has crafted a fantasy like no other, and one that will stay with readers long after they've turned the last page. "A stunning remake of a fairytale. Six Crimson Cranes is the perfect blend of whimsy and ferociousness, with twists and turns that will tug at your heartstrings." —Chloe Gong, New York Times bestselling author of These Violent Delights "Fast-paced excitement is balanced with a satisfyingly intricate plot that weaves in elements from Western fairy tales and East Asian folklore." —SLJ, starred review "A richly imagined landscape . . . vibrant, fast-paced." —Publishers Weekly, starred review Motivation is key to substance use behavior change. Counselors can support clients' movement toward positive changes in their substance use by identifying and enhancing motivation that already exists. Motivational approaches are based on the principles of person-centered counseling. Counselors' use of empathy, not authority and power, is key to enhancing clients' motivation to change. Clients are experts in their own recovery from SUDs. Counselors should engage them in collaborative partnerships. Ambivalence about change is normal. Resistance to change is an expression of ambivalence about change, not a client trait or characteristic. Confrontational approaches increase client resistance and discord in the counseling relationship. Motivational approaches explore ambivalence in a nonjudgmental and compassionate way. OUR DEAR YOUNG MEN AND YOUNG WOMEN, we have great confidence in you. You are beloved sons and daughters of God and He is mindful of you. You have come to earth at a time of great opportunities and also of great challenges. The standards in this booklet will help you with the important choices you are making now and will yet make in the future. We promise that as you keep the covenants you have made and these standards, you will be blessed with the companionship of the Holy Ghost, your faith and testimony will grow stronger, and you will enjoy increasing happiness. The book presents an engineering approach for the development of metamaterials and metasurfaces with emphasis on application in antennas. It offers an in-depth study, performance analysis and extensive characterization on different types of metamaterials and metasurfaces. Practical examples included in the book will help readers to enhance performance of antennas and also develop metamaterial-based absorbers for a variety of applications. Key Features Provides background for design and development of metamaterial structures using novel unit cells Gives in-depth performance study of miniaturization of microstrip antennas Discusses design and development of both transmission and reflection types, metasurfaces and their practical applications. Verifies a variety of Metamaterial structures and Metasurfaces experimentally The target audience of this book is postgraduate students and researchers involved in antenna designs. Researchers and engineers interested in enhancing the performance of the antennas using metamaterials will find this book extremely useful. The book will also serve as a good reference for developing artificial materials using metamaterials and their practical applications. Amit K. Singh is Assistant Professor in the Department of Electrical Engineering at the Indian Institute of Technology Jammu, India. He is a Member of the IEEE, USA. Mahesh P. Abegaonkar is Associate Professor at the Centre for Applied Research in Electronics at the Indian Institute of Technology Delhi. He is a Senior Member of the IEEE, USA. Shibani Kishen Koul is Emeritus Professor at the Centre for Applied Research in Electronics at the Indian Institute of Technology Delhi. He is a Life Fellow of the Institution of Electrical and Electronics Engineering (IEEE), USA, a Fellow of the Indian National Academy of Engineering (INAE), and a Fellow of the Institution of Electronics and Telecommunication Engineers (IETE). This is an imminently practical workbook that shows a variety of invaluable techniques to get centered, calm and organized. An effective and enjoyable guide to help you feel in charge of yourself." ~ Bessel van der Kolk, M.D. This is the workbook that all mental health professionals wish they had at the beginning of their careers. Containing over 100 approaches to effectively deal with trauma, this workbook pulls together a wide array of treatments into one concise resource. Equally useful in both group and individual settings, these interventions will provide hope and healing for the client, as well as expand and solidify the professional's expertise. Tools and techniques drawn from the most effective trauma modalities: * Art Therapy * CBT * DBT *

EFT * EMDR * Energy Psychology * Focusing * Gestalt Therapy * Guided Imagery * Mindfulness * Psychodrama * Sensorimotor Psychology * Somatic Experiencing and Movement Therapies -BONUS: Book includes a link to all reproducible worksheets! Print and use with clients right away!! Praise for 101 Trauma-Informed Interventions: "Linda Curran's unflagging energy and dedication to the healing of traumatized individuals has led to a voluminous, exciting, and comprehensive, 101 Trauma Informed Interventions. This workbook provides a plethora of effective tools -- traditional as well as innovative -- that can be used in whole or as a part of a course of therapy and also as self-help. The variety of options offered goes a long way towards dispelling the (unfortunately) popular misconception that there are only a limited number of interventions that help people to recover from trauma. Survivors as well as therapists who have been frustrated by the rigidity of strict adherence to evidence based practice will be greatly relieved to find a wealth of useful strategies to experiment, evaluate, and sort into a personally tailored trauma recovery program. This workbook is a god-send for the trauma field, expanding the possibilities for recovery in a most generous way." ~ Babette Rothschild, MSW author of *The Body Remembers* and *8 Keys to Safe Trauma Recovery* "Linda Curran has carefully and knowledgeably curated a practical, effective collection of interventions that actually work for trauma survivors. Any clinician committed to helping those suffering from posttraumatic stress needs to have these tools and resources to draw upon, because standard talk therapy, nine times out of ten, is simply not going to cut it. These exercises will." ~ Belleruth Naparstek, LISW, author of *Invisible Heroes: Survivors of Trauma and How They Heal* "Drawing from the whole spectrum of trauma-based therapies, Linda Curran has compiled a sampling of practical exercises designed to help therapists and their clients better navigate the mine field that trauma work can be and find the path to healing." ~ Richard Schwartz, Ph.D. author of *Internal Family Systems Therapy* "101 Trauma-Informed Interventions provides an accessible functional "playbook" for therapists committed to the rehabilitation of the client with a trauma history. In a readable volume Curran integrates diverse approaches of treatment and emphasizes the unique role that trauma plays in mental health. Underlying this eclectic strategy is the common theme emphasizing that healing will only begin when the trauma related feelings embedded in the body are appreciated." ~ Stephen W. Porges, Ph.D., author of *The Polyvagal Theory* "An interesting compendium of potential interventions that can be interwoven into any therapist's existing conceptual framework" ~ Louis Cozolino, Ph.D., Pepperdine University, and author of 5 books including the best-seller *The Neuroscience of Psychotherapy*, *Healing the Social Brain* (2nd edition) *New Topics in Simulation and Modeling of RF Circuits* addresses two main topics: simulation of RF circuits and new models of nonlinear power BAW resonators and filters. Since RF circuits have several unique features, and all analysis methods are based on the circuit essential properties, the book begins by describing the properties of RF circuits, characterization of circuits with customary and uncusomary behavior and some theorems of solutions existence and uniqueness for dynamic nonlinear circuits. Thereafter, the main time domain and frequency domain analysis methods for RF circuits are presented. The advantages and disadvantages of each method have been highlighted, and an algorithm for the time step choice in transient analysis based on energy balance errors is also presented. Lastly, the final part contains some nonlinear circuit models of power BAW resonators. The behavioral models for the time domain analysis are simple circuits containing weakly nonlinear elements. The behavioral models for frequency domain analysis are based on the measured values of the frequency dependent S parameters for a set of incident powers. S parameters corresponding to certain intermodulation products of practical interest are also considered. The physical models contain artificial transmission lines with nonlinear circuit elements corresponding to mechanical and electrical nonlinearities. This book presents and discusses strategies for the design and implementation of common-mode suppressed balanced microwave filters, including, narrowband, wideband, and ultra-wideband filters This book examines differential-mode, or balanced, microwave filters by discussing several implementations of practical realizations of these passive components. Topics covered include selective mode suppression, designs based on distributed and semi-lumped approaches, multilayer technologies, defect ground structures, coupled resonators, metamaterials, interference techniques, and substrate integrated waveguides, among others. Divided into five parts, *Balanced Microwave Filters* begins with an introduction that presents the fundamentals of balanced lines, circuits, and networks. Part 2 covers balanced transmission lines with common-mode noise suppression, including several types of common-mode filters and the application of such filters to enhance common-mode suppression in balanced bandpass filters. Next, Part 3 examines wideband and ultra-wideband (UWB) balanced bandpass filters with intrinsic common-mode suppression. Narrowband and dual-band balanced bandpass filters with intrinsic common-mode suppression are discussed in Part 4. Finally, Part 5 covers other balanced circuits, such as balanced power dividers and combiners, and differential-mode equalizers with common-mode filtering. In addition, the book: Explores a research topic of increasing interest due to the growing demand of balanced transmission lines and circuits in modern communication systems Includes contributions from prominent worldwide experts in the field Provides readers with the necessary knowledge to analyze and synthesize balanced filters and circuits *Balanced Microwave Filters* is an important text for R&D engineers, professionals, and specialists working on the topic of microwave filters. Post graduate students and Masters students in the field of microwave engineering and wireless communications, especially those involved in courses related to microwave filters, and balanced filters and circuits will also find it to be a vital resource. Combining different perspectives from materials science, engineering, and computer science, this reference provides a unified view of the various aspects necessary for the successful realization of intelligent systems. The editors and authors are from academia and research institutions with close ties to industry, and are thus able to offer first-hand information here. They adopt a unique, three-tiered approach such that readers can gain basic, intermediate, and advanced topical knowledge. The technology section of the book is divided into chapters covering the basics of sensor integration in materials, the challenges associated with this approach, data processing, evaluation, and validation, as well as methods for achieving an autonomous energy supply. The applications part then goes on to showcase typical scenarios where material-integrated intelligent systems are already in use, such as for structural health monitoring and smart textiles. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Today's Up-to-Date, Step-by-Step Guide to Designing Active Microwave Circuits *Microwave Circuit Design* is a complete guide to modern circuit design, including simulation tutorials that demonstrate Keysight Technologies' Advanced Design System (ADS), one of today's most widely used electronic design automation packages. And the software-based circuit design techniques that Yeom presents can be easily adapted for any modern tool or environment. Throughout, author Kyung-Whan Yeom uses the physical interpretation of basic concepts and concrete examples—not exhaustive calculations—to clearly and concisely explain the essential theory required to design microwave circuits, including passive and active device concepts, transmission line theory, and the basics of high-frequency measurement. To bridge the gap between theory and practice, Yeom presents real-world, hands-on examples focused on key elements of modern communication systems, radars, and other microwave transmitters and receivers. Practical coverage includes Up-to-date microwave simulation design examples based on ADS and easily adaptable to any simulator Detailed, step-by-step derivations of key design parameters related to procedures, devices, and performance Relevant, hands-on problem sets in every chapter Clear discussions of microwave IC categorization and roles; passive device impedances and equivalent circuits; coaxial and microstrip transmission lines; active devices (FET, BJT, DC Bias); and impedance matching A complete, step-by-step introduction to circuit simulation using the ADS toolset and window framework Low noise amplifier (LNA) design: gains, stability, conjugate matching, and noise circles Power amplifier (PA) design: optimum load impedances, classification, linearity, and composite PAs Microwave oscillator design: oscillation conditions, phase noise, basic circuits, and dielectric resonators Phase lock loops (PLL) design: configuration, operation, components, and loop filters Mixer design: specifications, Schottky diodes, qualitative analysis of mixers (SEM, SBM, DBM), and quantitative analysis of single-ended mixer (SEM) *Microwave Circuit Design* brings together all the practical skills graduate students and professionals need to successfully design today's active microwave circuits. *Radio-Frequency Integrated-Circuit Engineering* addresses the theory, analysis and design of passive and active RFIC's using Si-based CMOS and Bi-CMOS technologies, and other non-silicon based technologies. The materials covered are self-contained and presented in such detail that allows readers with only undergraduate electrical engineering knowledge in EM, RF, and circuits to understand and design RFICs. Organized into sixteen chapters, blending analog and microwave engineering, *Radio-Frequency Integrated-Circuit Engineering* emphasizes the microwave engineering approach for RFICs. * Provides essential knowledge in EM and microwave engineering, passive and active RFICs, RFIC analysis and design techniques, and RF systems vital for RFIC students and engineers * Blends analog and microwave engineering approaches for RFIC design at high frequencies * Includes problems at the end of each chapter Four

leaders in the field of microwave circuit design share their newest insights into the latest aspects of the technology The third edition of Microwave Circuit Design Using Linear and Nonlinear Techniques delivers an insightful and complete analysis of microwave circuit design, from their intrinsic and circuit properties to circuit design techniques for maximizing performance in communication and radar systems. This new edition retains what remains relevant from previous editions of this celebrated book and adds brand-new content on CMOS technology, GaN, SiC, frequency range, and feedback power amplifiers in the millimeter range region. The third edition contains over 200 pages of new material. The distinguished engineers, academics, and authors emphasize the commercial applications in telecommunications and cover all aspects of transistor technology. Software tools for design and microwave circuits are included as an accompaniment to the book. In addition to information about small and large-signal amplifier design and power amplifier design, readers will benefit from the book's treatment of a wide variety of topics, like: An in-depth discussion of the foundations of RF and microwave systems, including Maxwell's equations, applications of the technology, analog and digital requirements, and elementary definitions A treatment of lumped and distributed elements, including a discussion of the parasitic effects on lumped elements Descriptions of active devices, including diodes, microwave transistors, heterojunction bipolar transistors, and microwave FET Two-port networks, including S-Parameters from SPICE analysis and the derivation of transducer power gain Perfect for microwave integrated circuit designers, the third edition of Microwave Circuit Design Using Linear and Nonlinear Techniques also has a place on the bookshelves of electrical engineering researchers and graduate students. It's comprehensive take on all aspects of transistors by world-renowned experts in the field places this book at the vanguard of microwave circuit design research. The subject of this book is CMOS RF circuit design for reliability. The device reliability and process variation issues on RF transmitter and receiver circuits will be particular interest to the readers in the field of semiconductor devices and circuits. This proposed book is unique to explore typical reliability issues in the device and technology level and then to examine their impact on RF wireless transceiver circuit performance. Analytical equations, experimental data, device and circuit simulation results will be given for clear explanation. The main benefit the reader derive from this book will be clear understanding on how device reliability issues affects the RF circuit performance subjected to operation aging and process variations. A collection of stories about the life of a migrant family. Microwave Engineering is a vast subject with topics ranging from semiconductor physics to electromagnetic theory. This textbook covers the microwave and RF engineering topics from an Electronic Design Automation (EDA) approach. The topics includes RF and microwave concepts and components, transmission lines, network parameters, maximum power transfer requirements, lumped and distributed impedance matching, and several linear amplifier designs. Almost all subject matters covered in the textbook are accompanied by examples that are solved using the latest version of Keysight ADS software. University students and practicing engineers will find this book both as a potent learning tool and as a reference guide to quickly setup designs using the ADS software. The book thoroughly covers the basics as well as introducing techniques that may not be familiar to some engineers. This includes subjects such as the frequent use of the MATLAB Script capability. The 100 RF and Microwave Circuit Design Examples - with Keysight (ADS) Solutions is basically a solution manual for the 100 examples in the author's Updated and Revised RF and Microwave Circuit Design textbook . The solution manual is valuable in that it marries RF and Microwave theory with the practical examples using the Keysight Advanced Design System (ADS) software. The solution manual provides the readers a solid understanding of the examples in the RF and microwave concepts and components, Smith chart, S-parameters, transmission lines, impedance matching circuits, resonators, filters and amplifiers. More importantly, it details how to use the ADS software in the analysis and design of RF and microwave circuits in a manner that is practiced in industry. This ensures that the skills learned in this book can be easily and immediately put into practice without any barriers. The investment in learning the foundational of RF and microwave circuit design skills and the EDA techniques taught in this book provides students and engineers with valuable knowledge that will remain relevant for a long time to come. "Raymond Chen is the original raconteur of Windows." --Scott Hanselman, ComputerZen.com "Raymond has been at Microsoft for many years and has seen many nuances of Windows that others could only ever hope to get a glimpse of. With this book, Raymond shares his knowledge, experience, and anecdotal stories, allowing all of us to get a better understanding of the operating system that affects millions of people every day. This book has something for everyone, is a casual read, and I highly recommend it!" --Jeffrey Richter, Author/Consultant, Cofounder of Wintellect "Very interesting read. Raymond tells the inside story of why Windows is the way it is." --Eric Gunnerson, Program Manager, Microsoft Corporation "Absolutely essential reading for understanding the history of Windows, its intricacies and quirks, and why they came about." --Matt Pietrek, MSDN Magazine's Under the Hood Columnist "Raymond Chen has become something of a legend in the software industry, and in this book you'll discover why. From his high-level reminiscences on the design of the Windows Start button to his low-level discussions of GlobalAlloc that only your inner-geek could love, The Old New Thing is a captivating collection of anecdotes that will help you to truly appreciate the difficulty inherent in designing and writing quality software." --Stephen Toub, Technical Editor, MSDN Magazine Why does Windows work the way it does? Why is Shut Down on the Start menu? (And why is there a Start button, anyway?) How can I tap into the dialog loop? Why does the GetWindowText function behave so strangely? Why are registry files called "hives"? Many of Windows' quirks have perfectly logical explanations, rooted in history. Understand them, and you'll be more productive and a lot less frustrated. Raymond Chen--who's spent more than a decade on Microsoft's Windows development team--reveals the "hidden Windows" you need to know. Chen's engaging style, deep insight, and thoughtful humor have made him one of the world's premier technology bloggers. Here he brings together behind-the-scenes explanations, invaluable technical advice, and illuminating anecdotes that bring Windows to life--and help you make the most of it. A few of the things you'll find inside: What vending machines can teach you about effective user interfaces A deeper understanding of window and dialog management Why performance optimization can be so counterintuitive A peek at the underbelly of COM objects and the Visual C++ compiler Key details about backwards compatibility--what Windows does and why Windows program security holes most developers don't know about How to make your program a better Windows citizen The Effect: An Introduction to Research Design and Causality is about research design, specifically concerning research that uses observational data to make a causal inference. It is separated into two halves, each with different approaches to that subject. The first half goes through the concepts of causality, with very little in the way of estimation. It introduces the concept of identification thoroughly and clearly and discusses it as a process of trying to isolate variation that has a causal interpretation. Subjects include heavy emphasis on data-generating processes and causal diagrams. Concepts are demonstrated with a heavy emphasis on graphical intuition and the question of what we do to data. When we "add a control variable" what does that actually do? Key Features: • Extensive code examples in R, Stata, and Python • Chapters on overlooked topics in econometrics classes: heterogeneous treatment effects, simulation and power analysis, new cutting-edge methods, and uncomfortable ignored assumptions • An easy-to-read conversational tone • Up-to-date coverage of methods with fast-moving literatures like difference-in-differences New translation of The Metamorphosis by Franz Kafka. Poor Gregor Samsa! This guy wakes up one morning to discover that he's become a "monstrous vermin". The first pages of The Metamorphosis where Gregor tries to communicate through the bedroom door with his family, who think he's merely being lazy, is vintage screwball comedy. Indeed, scholars and readers alike have delighted in Kafka's gallows humor and matter-of-fact handling of the absurd and the terrifying. But it is one of the most enigmatic stories of all time, with an opening sentence that's unparalleled in all of literature. #1 NEW YORK TIMES BESTSELLER • OPRAH'S BOOK CLUB PICK • "An instant American classic and almost certainly the keynote nonfiction book of the American century thus far."—Dwight Garner, The New York Times The Pulitzer Prize-winning, bestselling author of The Warmth of Other Suns examines the unspoken caste system that has shaped America and shows how our lives today are still defined by a hierarchy of human divisions. #1 NONFICTION BOOK OF THE YEAR: Time ONE OF THE BEST BOOKS OF THE YEAR: The Washington Post, The New York Times, Los Angeles Times, The Boston Globe, O: The Oprah Magazine, NPR, Bloomberg, The Christian Science Monitor, New York Post, The New York Public Library, Fortune, Smithsonian Magazine, Marie Claire, Slate, Library Journal, Kirkus Reviews Winner of the Carl Sandberg Literary Award • Winner of the Los Angeles Times Book Prize • National Book Award Longlist • National Book Critics Circle Award Finalist • Dayton Literary Peace Prize Finalist • PEN/John Kenneth Galbraith Award for Nonfiction Finalist • PEN/Jean Stein Book Award Longlist • Kirkus Prize Finalist "As we go about our daily lives, caste is the wordless usher in a darkened theater, flashlight cast down in the aisles, guiding us to our assigned seats for a performance. The hierarchy of caste is not about feelings or morality. It is about power—which groups have it and which do not." In this brilliant book, Isabel Wilkerson gives us a masterful portrait

of an unseen phenomenon in America as she explores, through an immersive, deeply researched, and beautifully written narrative and stories about real people, how America today and throughout its history has been shaped by a hidden caste system, a rigid hierarchy of human rankings. Beyond race, class, or other factors, there is a powerful caste system that influences people's lives and behavior and the nation's fate. Linking the caste systems of America, India, and Nazi Germany, Wilkerson explores eight pillars that underlie caste systems across civilizations, including divine will, bloodlines, stigma, and more. Using riveting stories about people—including Martin Luther King, Jr., baseball's Satchel Paige, a single father and his toddler son, Wilkerson herself, and many others—she shows the ways that the insidious undertow of caste is experienced every day. She documents how the Nazis studied the racial systems in America to plan their outcasting of the Jews; she discusses why the cruel logic of caste requires that there be a bottom rung for those in the middle to measure themselves against; she writes about the surprising health costs of caste, in depression and life expectancy, and the effects of this hierarchy on our culture and politics. Finally, she points forward to ways America can move beyond the artificial and destructive separations of human divisions, toward hope in our common humanity. Original and revealing, *Caste: The Origins of Our Discontents* is an eye-opening story of people and history, and a reexamination of what lies under the surface of ordinary lives and of American life today.

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