

AN ENGINEER'S GUIDE TO

# **AUTOMATED TESTING OF HIGH-SPEED INTERFACES**

SECOND EDITION



JOSÉ MOREIRA • HUBERT WERKMANN

# An Engineers Guide To Automated Testing Of High Speed Interfaces

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## **An Engineers Guide To Automated Testing Of High Speed Interfaces:**

**An Engineer's Guide to Automated Testing of High-Speed Interfaces, Second Edition** Jose Moreira, Hubert Werkmann, 2016-04-30 This second edition of An Engineer's Guide to Automated Testing of High Speed Interfaces provides updates to reflect current state of the art high speed digital testing with automated test equipment technology ATE Featuring clear examples this one stop reference covers all critical aspects of automated testing including an introduction to high speed digital basics a discussion of industry standards ATE and bench instrumentation for digital applications and test and measurement techniques for characterization and production environment Engineers learn how to apply automated test equipment for testing high speed digital I O interfaces and gain a better understanding of PCI Express 4 100Gb Ethernet and MIPI while exploring the correlation between phase noise and jitter This updated resource provides expanded material on 28 32 Gbps NRZ testing and wireless testing that are becoming increasingly more pertinent for future applications This book explores the current trend of merging high speed digital testing within the fields of photonic and wireless testing

**An Engineer's Guide to Automated Testing of High-speed Interfaces** José Moreira, Hubert Werkmann, 2010 Providing a complete introduction to the state of the art in high speed digital testing with automated test equipment ATE this practical resource is the first book to focus exclusively on this increasingly important topic Featuring clear examples this one stop reference covers all critical aspects of the subject from high speed digital basics ATE instrumentation for digital applications and test and measurements to production testing support instrumentation and test fixture design This in depth volume also discusses advanced ATE topics such as multiplexing of ATE pin channels and testing of high speed bi directional interfaces with fly by approaches

**High-Speed Circuit Board Signal Integrity, Second Edition** Stephen C. Thierauf, 2017-04-30 This thoroughly updated leading edge circuit design resource offers the knowledge needed to quickly pinpoint transmission problems that can compromise the entire circuit design This new edition demonstrates how to apply EM theory to solve signal integrity problems with a practical application oriented approach Discussing both design and debug issues at gigabit per second data rates the book serves as a practical reference for projects involving high speed serial signaling on printed wiring boards Step by step this book goes from reviewing the essentials of linear circuit theory to examining practical issues of pulse propagation along lossless and lossy transmission lines It provides detailed guidelines for crosstalk attenuation power supply decoupling and layer stackup tradeoffs including pad antipad tradeoffs Other key topics include the construction of etched conductors analysis of return paths and split planes microstrip and stripline characteristics and SMT capacitors Filled with on the job proven examples this hands on reference is the book that engineers can turn to time and again to design out and troubleshoot circuit signal loss and impedance problems

**RF Circuits and Applications for Practicing Engineers** Mouqun Dong, 2020-10-31 This comprehensive resource explains the theory of RF circuits and systems and the practice of designing them The fundamentals for linear and low noise amplifier designs including the S and

noise parameters and their applications in amplifier designs and matching network designs using the Smith chart are covered Theories of RF power amplifiers and high efficiency power amplifiers are also explained The underpinnings of wireless communications systems as well as passive components commonly used in RF circuits and measurements are discussed RF measurement techniques and RF switches are also presented The book explores stability criteria and the invariant property of lossless networks and includes detailed theoretical treatments The basic concepts and techniques covered in this book are routinely used in today's engineering practice especially from the perspective of printed circuit board PCB based RF circuit design and system integration Intended for practicing engineers and circuit designers this book focuses on practical topics in circuit design and measurement techniques It bridges the gap between academic materials and real circuit designs using real circuit examples and practical tips Readers develop a numerical feel for RF problems as well as awareness of the concepts of design for cost and design for manufacturing which is a critical skill set for today's engineers working in an environment of commercial product development

**Lumped Elements for RF and Microwave Circuits, Second Edition** Inder J. Bahl, 2022-12-31 Fully updated and including entirely new chapters this Second Edition provides in depth coverage of the different types of RF and microwave circuit elements including inductors capacitors resistors transformers via holes airbridges and crossovers Featuring extensive formulas for lumped elements design trade offs and an updated and current list of references the book helps you understand the value and usefulness of lumped elements in the design of RF microwave and millimeter wave components and circuits You'll find a balanced treatment between standalone lumped elements and their circuits using MICs MMICs and RFICs technologies You'll also find detailed information on a broader range RFICs that was not available when the popular first edition was published The book captures in one consolidated volume the fundamentals equations modeling examples references and overall procedures to design test and produce microwave components that are indispensable in industry and academia today With its superb organization and expanded coverage of the subject this is a must have go to resource for practicing engineers and researchers in industry government and university and microwave engineers working in the antenna area Students will also find it a useful reference with its clear explanations many examples and practical modeling guidelines

**Microstrip Lines and Slotlines, Fourth Edition** Ramesh Garg, Inder J. Bahl, 2024-10-31 Microstrip Lines and Slotlines Fourth Edition is an indispensable resource for practicing engineers This edition is updated to reflect the latest developments in the field providing extensive analysis techniques and CAD design and modeling information This volume covers approximate and full wave analysis techniques accurate circuit model extraction and design information focusing on miniaturization broadband operation and precise design It also incorporates the most recent information from conferences journals books and personal research New topics on Metamaterial Based Transmission Lines and Numerical Simulation and Modeling of transmission lines are introduced aligning with the book's core themes Some of the key updates included in this fourth edition are the integration of significant

materials significant revisions reflecting the latest research and the introduction of cutting edge topics enhancing the existing content With these comprehensive updates Microstrip Lines and Slotlines Fourth Edition ensures that readers have access to the most relevant and cutting edge information in the field of printed transmission lines This book is a must have for professionals and researchers dedicated to advancing their knowledge and expertise in this dynamic area      **Vertical**

**GaN and SiC Power Devices** Kazuhiro Mochizuki,2018-04-30 This unique new resource provides a comparative introduction to vertical Gallium Nitride GaN and Silicon Carbide SiC power devices using real commercial device data computer and physical models This book uses commercial examples from recent years and presents the design features of various GaN and SiC power components and devices Vertical verses lateral power semiconductor devices are explored including those based on wide bandgap materials The abstract concepts of solid state physics as they relate to solid state devices are explained with particular emphasis on power solid state devices Details about the effects of photon recycling are presented including an explanation of the phenomenon of the family tree of photon recycling This book offers in depth coverage of bulk crystal growth of GaN including hydride vapor phase epitaxial HVPE growth high pressure nitrogen solution growth sodium flux growth ammonothermal growth and sublimation growth of SiC The fabrication process including ion implantation diffusion oxidation metallization and passivation is explained The book provides details about metal semiconductor contact unipolar power diodes and metal insulator semiconductor MIS capacitors Bipolar power diodes power switching devices and edge terminations are also covered in this resource      **Millimeter-Wave GaN Power Amplifier**

**Design** Edmar Camargo,2022-05-31 This book gives you in one comprehensive and practical resource everything you need to successfully design modern and sophisticated power amplifiers at mmWave frequencies The book provides an in depth treatment of the design methodology for MMIC power amplifiers then brings you step by step through the various phases of design from the selection of technology and preliminary architecture considerations to the effective design of the matching circuits and conversion of electrical to electromagnetic models Detailed figures and numerous practical applications are included to help you gain valuable insights into these technologies and learn to identify the best path to a successful design You ll be guided through a range of new mmWave power applications that show particular promise to support new 5G systems while mastering the use of GaN technology that continues to dominate the power mmWave applications due to its high power gain and efficiency This is a valuable resource for power amplifier design engineers technicians industry R D staff and anyone getting into the area of power MMICs who wants to learn how to design at mmWave frequencies      **Microwave**

**Techniques in Superconducting Quantum Computers** Alan Salari,2024-01-31 The first of its kind Microwave Techniques in Superconducting Quantum Computers introduces microwave and quantum engineers to essential practical techniques and theoretical foundations crucial for operating and implementing hardware in superconducting quantum processors This practical resource covers an extensive range of topics including Introduction to Quantum Physics Introduction to Quantum

Computing Superconducting Qubits Microwave Systems Microwave Components Principles of Electromagnetic Compatibility Control Hardware for Superconducting Qubits and Principles of Cryogenics Such technical knowledge equips the reader with essential skills to succeed in the demanding industries and research settings surrounding quantum technologies With clearly outlined learning objectives and coherent explanations of intricate concepts this is a must have reference for a wide spectrum of professionals including microwave and quantum engineers technical managers technical sales engineers in quantum computing and microwave companies as well as newcomers entering this field To enrich the reader's experience this book offers additional complementary content accessible via [www.quaxys.com](http://www.quaxys.com) book

**Nonlinear Design: FETs and HEMTs** Peter H. Ladbrooke, 2021-11-30 Despite its continuing popularity the so called standard circuit model of compound semiconductor field effect transistors FETs and high electron mobility transistors HEMTs is shown to have a limitation for nonlinear analysis and design it is valid only in the static limit When the voltages and currents are time varying as they must be for these devices to have any practical use the model progressively fails for higher specification circuits This book shows how to reform the standard model to render it fully compliant with the way FETs and HEMTs actually function thus rendering it valid dynamically Proof of principle is demonstrated for several practical circuits including a frequency doubler and amplifiers with demanding performance criteria Methods for extracting both the reformulated model and the standard model are described including a scheme for re constructing from S parameters the bias dependent dynamic or RF I V characteristics along which devices work in real world applications and as needed for the design of nonlinear circuits using harmonic balance and time domain simulators The book includes a historical review of how variations on the standard model theme evolved leading up to one of the most widely used the Angelov or Chalmers model

*Substrate Integrated Suspended Line Circuits and Systems* Kaixue Ma, Yongqiang Wang, 2024-03-31 Substrate Integrated Suspended Line Circuits and Systems provides a systematic overview of the new transmission line the substrate integrated suspension line SISL It details the fundamentals and classical application examples of the SISL The basic SISL concept and structure various passive circuits and active circuits and front end sub systems are systematically introduced Featuring research on topics such as high performance RF microwave mm wave circuits and system this book is ideal for researchers engineers scientists scholars educators and students Since transmission line is a fundamental component of microwave and mm wave circuits the properties of a transmission line such as losses size and dispersion are vital to the performance of the whole system Suspended line has been proved to be an excellent transmission line as it has attractive features such as low loss weak dispersion high power capacity and low effective dielectric constant However Conventional waveguide suspended line circuits require metal housing to form air cavities which is Substrate Integrated Suspended Line Circuits and Systems essential to the operation of suspended lines circuits Also the metal shell should provide mechanical support and shielding which contribute to large size and heavy weight Meanwhile precise mechanical fabrication and assembling are strongly

required which brings difficulties to the design and fabrication of conventional suspended line circuits and the manufacturing cost of suspended line circuits increases correspondingly In this book we will introduce a new platform of high performance transmission line i e substrate integrated suspended line SISL SISL keeps all the merits of the suspended line while overcomes the drawbacks of conventional waveguide suspended line circuits Moreover it is self packaged and highly integrated The basic SISL concept and structure various passive circuits and active circuits and front end sub systems will be systematically introduced Featuring research on topics such as high performance RF microwave mm wave circuits and system this book is ideally designed for researchers engineers scientists scholars educators and students *Frequency Synthesizers* Alexander Chenakin,2011 A frequency synthesizer is an electronic system for generating any of a range of frequencies from a single fixed oscillator They are found in modern devices like radio receivers mobile phones and GPS systems This comprehensive resource offers RF and microwave engineers a thorough overview of both well established and recently developed frequency synthesizer design techniques Professionals find expert guidance on all design aspects including main architectures key building blocks and practical circuit implementation Engineers learn the development process and gain a solid understanding of how to build a synthesizer from a basic diagram to the final product Starting with a simple single loop PLL example the book progressively examines various alternatives fractional N DDS frequency offset multiloop and more OCo to achieve required performance objectives This unique volume gathers a collection of block diagrams clever circuits design recipes and other hard to find information that is usually treated as OC design secretsOCO Written in a simple yet rigorous style with numerous illustrations the book is an all in one reference for both beginner and experienced designers

**Radio Frequency Machine Learning: A Practical Deep Learning Perspective** Scott Kuzdeba,2025-01-31 Radio Frequency Machine Learning A Practical Deep Learning Perspective goes beyond general introductions to deep learning offering a focused exploration of how modern deep learning techniques can be applied directly to radio frequency RF challenges It covers a wide range of applications including classification tasks where deep learning is used to label and categorize signals based on a labeled training dataset as well as clustering tasks that group similar signals together without labels Additionally it expands into deep learning generative AI for waveform synthesis and how reinforcement learning can be used within the domain This book also investigates advanced topics like RF sensor control feedback mechanisms and real time system operations offering a comprehensive understanding of how deep learning can be integrated into dynamic RF environments This resource addresses the practical concerns of deploying machine learning in operational RF systems It goes beyond applications and techniques covering how to ensure the robustness of solutions with insights into data sources augmentation techniques and strategies for integrating ML with existing RF infrastructure The full development process is examined from data collection to deployment along with numerous case studies throughout Looking to the future the book explores emerging trends like edge computing and federated learning offering a forward looking

perspective on the continued evolution of RF machine learning Whether the reader is just beginning the journey into RF machine learning or is looking to refine skills this book provides an essential resource for understanding the intersection of deep learning and RF technology This is a must have resource for anyone interested in the cutting edge of wireless technologies and their potential to shape the future of communication

*Microwave Network Design Using the Scattering Matrix* Janusz Dobrowolski, 2010 This authoritative resource provides you with comprehensive and detailed coverage of the wave approach to microwave network characterization analysis and design using scattering parameters For the first time in any book all aspects and approaches to wave variables and the scattering matrix are explored The book compares and contrasts voltage waves travelling waves pseudo waves and power waves and explains the differences between real scattering parameters pseudo scattering parameters and power scattering parameters You find important discussions on standard scattering matrices and wave quantities mixed mode wave variables and noise wave variables with noise wave correlation matrices Moreover the book presents clear methods for standard single ended multiport network design and noise analysis This in depth reference is packed with over 1 100 equations and numerous illustrations

*Klystrons, Traveling Wave Tubes, Magnetrons, Crossed-field Amplifiers, and Gyrotrons* A. S. Gilmour Jr., A. S. Gilmour, 2011 Microwave tubes are vacuum electron devices used for the generation and amplification of radio frequencies in the microwave range An established technology area the use of tubes remains essential in the field today for high power applications The culmination of the author's 50 years of industry experience this authoritative resource offers you a thorough understanding of the operations and major classes of microwave tubes Minimizing the use of advanced mathematics the book places emphasis on clear qualitative explanations of phenomena This practical reference serves as an excellent introduction for newcomers to the field and offers established tube engineers a comprehensive refresher Professionals find coverage of all major tube classifications including klystrons traveling wave tubes TWTs magnetrons cross field amplifiers and gyrotrons

*Microwave and Millimeter-Wave Vacuum Electron Devices: Inductive Output Tubes, Klystrons, Traveling-Wave Tubes, Magnetrons, Crossed-Field Amplifiers, and Gyrotrons* A.S. Gilmour, Jr., 2020-04-30 Written by an internationally recognized expert on the subject of microwave MW tubes this book presents and describes the many types of microwave tubes and despite competition from solid state devices those using GaN SiC et cetera which continue to be used widely and find new applications in defense communications medical and industrial drying Helix traveling wave tubes TWTs as well as coupled cavity TWTs are covered Klystrons and how they work are described along with the physics behind it and examples of devices and their uses Vacuum electron devices are explained in detail and examines the harsh environment that must exist in tubes if they are to operate properly The secondary emission process and its role in the operation of crossed field devices is also discussed The design of collectors for linear beam tubes including power dissipation and power recovery are explored Discussions of important noise sources and techniques that can be used to minimize their effects are also included Presented



in full color this book contains a balance of practical and theoretical material so that those new to microwave tubes as well as experienced microwave tube technicians engineers and managers can benefit from its use *Distributed Power Amplifiers for RF and Microwave Communications* Narendra Kumar, Andrei Grebennikov, 2015-06-01 This new resource presents readers with all relevant information and comprehensive design methodology of wideband amplifiers This book specifically focuses on distributed amplifiers and their main components and presents numerous RF and microwave applications including well known historical and recent architectures theoretical approaches circuit simulation and practical implementation techniques A great resource for practicing designers and engineers this book contains numerous well known and novel practical circuits architectures and theoretical approaches with detailed description of their operational principles

Microwave Circulator Design, Second Edition Douglas K. Linkhart, 2014-02-01 Circulator design has advanced significantly since the first edition of this book was published 25 years ago The objective of this second edition is to present theory information and design procedures that will enable microwave engineers and technicians to design and build circulators successfully This resource contains a discussion of the various units used in the circulator design computations as well as covers the theory of operation This book presents numerous applications giving microwave engineers new ideas about how to solve problems using circulators Design examples are provided which demonstrate how to apply the information to real world design tasks **Microwave and RF Semiconductor Control Device Modeling** Robert H. Caverly, 2016-02-01

This comprehensive new resource presents a detailed look at the modeling and simulation of microwave semiconductor control devices and circuits Fundamental PIN MOSFET and MESFET nonlinear device modeling are discussed including the analysis of transient and harmonic behavior Considering various control circuit topologies the book analyzes a wide range of models from simple approximations to sophisticated analytical approaches Readers find clear examples that provide guidance in how to use specific modeling techniques for their challenging projects in the field Numerous illustrations help practitioners better understand important device and circuit behavior revealing the relationship between key parameters and results This authoritative volume covers basic and complex mathematical models for the most common semiconductor control elements used in today's microwave and RF circuits and systems *Advances in Data and Information Sciences* Mohan L. Kolhe, Shailesh Tiwari, Munesh C. Trivedi, Krishn K. Mishra, 2020-01-02 This book gathers a collection of high quality peer reviewed research papers presented at the 2nd International Conference on Data and Information Sciences ICDIS 2019 held at Raja Balwant Singh Engineering Technical Campus Agra India on March 29 30 2019 In chapters written by leading researchers developers and practitioner from academia and industry it covers virtually all aspects of computational sciences and information security including central topics like artificial intelligence cloud computing and big data Highlighting the latest developments and technical solutions it will show readers from the computer industry how to capitalize on key advances in next generation computer and communication technology

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### **An Engineers Guide To Automated Testing Of High Speed Interfaces Introduction**

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