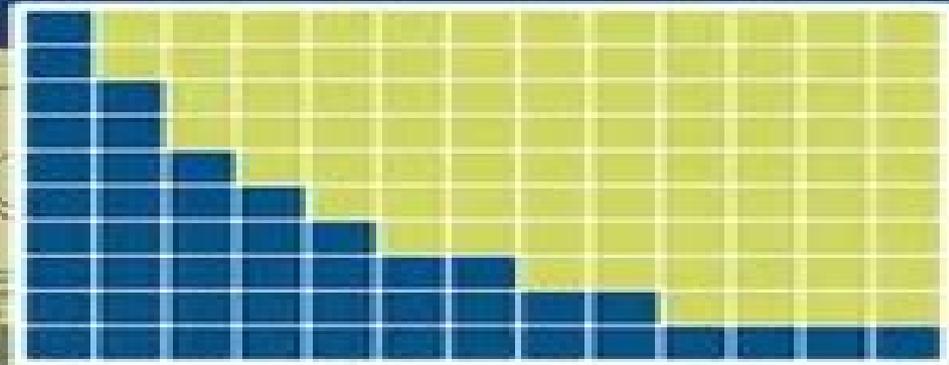


Jose Moreira • Hubert Weikmann

# AN ENGINEER'S GUIDE TO AUTOMATED TESTING OF HIGH-SPEED INTERFACES



# An Engineers Guide To Automated Testing Of High Speed Interfaces

**Kazuhiro Mochizuki**



## **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

*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     **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.

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 will 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.

*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 will find a balanced treatment between standalone lumped elements and their circuits using MICs, MMICs, and RFICs technologies. You will also find detailed information on a broader range of 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.

**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.

**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).

**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 *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 *The PC Systems Handbook for Scientists and Engineers* Richard A. Eckhardt,Matthew F. Kubitsky,Robert C. Molloy,1988 **RCA Engineer** ,1974 **Proceedings** ,1992 *Design News* ,1986 *Thomas Register* ,2004 *Computers, Control & Information Theory* ,1983 [Electronic Design](#) ,1997 **Associations' Publications in Print** ,1981 1981 in 2 v v 1 Subject index v 2 Title index Publisher title index Association

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