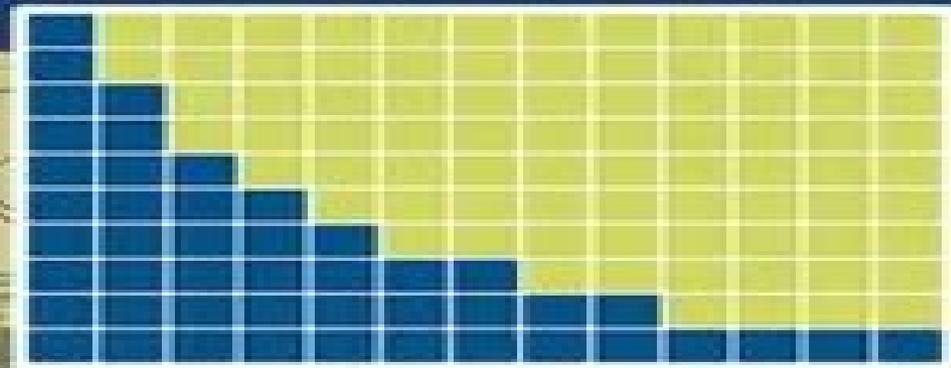


Jose Moreira • Hubert Wekmann

# 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

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**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, vias, 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 **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 versus 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 [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

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## Unveiling the Magic of Words: A Report on "**An Engineers Guide To Automated Testing Of High Speed Interfaces**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**An Engineers Guide To Automated Testing Of High Speed Interfaces**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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