Introduction to Semiconductor Device Yield Modeling

Albert V. Ferris-Prabhu

Introduction To Semiconductor Device Yield Modeling

Bashir M. Al-Hashimi

Introduction To Semiconductor Device Yield Modeling:

   Introduction to Semiconductor Device Yield Modeling Albert V. Ferris-Prabhu,1992 This text the first of its kind delivers a systematically organized introduction to the theory and practice of yield prediction The book addresses the economic need for accurate yield prediction and clarifies the important role it plays in the semiconductor industry

   Introduction to Semiconductor Device Modelling Christopher M. Snowden,1998 This book deals mainly with physical device models which are developed from the carrier transport physics and device geometry considerations The text concentrates on silicon and gallium arsenide devices and includes models of silicon bipolar junction transistors junction field effect transistors JFETs MESFETs silicon and GaAs MESFETs transferred electron devices pn junction diodes and Schottky varactor diodes The modelling techniques of more recent devices such as the heterojunction bipolar transistors HBT and the high electron mobility transistors are discussed This book contains details of models for both equilibrium and non equilibrium transport conditions The modelling Technique of Small scale devices is discussed and techniques applicable to submicron dimensioned devices are included A section on modern quantum transport analysis techniques is included Details of essential numerical schemes are given and a variety of device models are used to illustrate the application of these techniques in various fields   **Introduction to Microdisplays** David Armitage,Ian Underwood,Shin-Tson Wu,2006-10-20 Microdisplays are tiny high resolution electronic displays designed for use in magnifying optical systems such as HDTV projectors and near eye personal viewers As a result of research and development into this field Microdisplays are incorporated in a variety of visual electronics notably new 3G portable communications devices digital camera technologies wireless internet applications portable DVD viewers and wearable PCs Introduction to Microdisplays encapsulates this market through describing in detail the theory structure fabrication and applications of Microdisplays In particular this book Provides excellent reference material for the Microdisplay industry through including an overview of current applications alongside a guide to future developments in the field Covers all current technologies and devices such as Silicon Wafer Backplane Technology Liquid Crystal Devices Micromechanical Devices and the emerging area of Organic Light Emitting Diodes Presents guidance on the design of applications of Microdisplays including Microdisplays for defence and telecoms from basic principles through to their performance limitations Introduction to Microdisplays is a thorough and comprehensive reference on this emerging topic It is essential reading for display technology manufacturers developers and system integrators as well as practising electrical engineers physicists chemists and specialists in the display field Graduate students researchers and developers working in optics material science and telecommunications will also find this a valuable resource The Society for Information Display SID is an international society which has the aim of encouraging the development of all aspects of the field of information display Complementary to the aims of the society the Wiley SID series is intended to explain the latest developments in information display technology at a professional level The broad scope of the series

addresses all facets of information displays from technical aspects through systems and prototypes to standards and ergonomics **System-on-Chip** Bashir M. Al-Hashimi,2006-01-31 This book highlights both the key achievements of electronic systems design targeting SoC implementation style and the future challenges presented by the continuing scaling of CMOS technology **Integrated Circuit Manufacturability** José Pineda de Gyvez,Dhiraj Pradhan,1998-10-30 INTEGRATED CIRCUIT MANUFACTURABILITY provides comprehensive coverage of the process and design variables that determine the ease and feasibility of fabrication or manufacturability of contemporary VLSI systems and circuits This book progresses from semiconductor processing to electrical design to system architecture The material provides a theoretical background as well as case studies examining the entire design for the manufacturing path from circuit to silicon Each chapter includes tutorial and practical applications coverage INTEGRATED CIRCUIT MANUFACTURABILITY illustrates the implications of manufacturability at every level of abstraction including the effects of defects on the layout their mapping to electrical faults and the corresponding approaches to detect such faults The reader will be introduced to key practical issues normally applied in industry and usually required by quality product and design engineering departments in today s design practices Yield management strategies Effects of spot defects Inductive fault analysis and testing Fault tolerant architectures and MCM testing strategies This book will serve design and product engineers both from academia and industry It can also be used as a reference or textbook for introductory graduate level courses on manufacturing **Defect-Oriented Testing for Nano-Metric CMOS VLSI Circuits** Manoj Sachdev,José Pineda de Gyvez,2007-06-04 The 2nd edition of defect oriented testing has been extensively updated New chapters on Functional Parametric Defect Models and Inductive fault Analysis and Yield Engineering have been added to provide a link between defect sources and yield The chapter on RAM testing has been updated with focus on parametric and SRAM stability testing Similarly newer material has been incorporated in digital fault modeling and analog testing chapters The strength of Defect Oriented Testing for nano Metric CMOS VLSIs lies in its industrial relevance **Defect Oriented Testing for CMOS Analog and Digital Circuits** Manoj Sachdev,2013-06-29 Defect oriented testing is expected to play a significant role in coming generations of technology Smaller feature sizes and larger die sizes will make ICs more sensitive to defects that can not be modeled by traditional fault modeling approaches Furthermore with increased level of integration an IC may contain diverse building blocks Such blocks include digital logic PLAs volatile and non volatile memories and analog interfaces For such diverse building blocks traditional fault modeling and test approaches will become increasingly inadequate Defect oriented testing methods have come a long way from a mere interesting academic exercise to a hard industrial reality Many factors have contributed to its industrial acceptance Traditional approaches of testing modern integrated circuits ICs have been found to be inadequate in terms of quality and economics of test In a globally competitive semiconductor market place overall product quality and economics have become very important objectives In addition electronic systems are becoming increasingly complex and demand components of

highest possible quality Testing in general and defect oriented testing in particular help in realizing these objectives Defect Oriented Testing for CMOS Analog and Digital Circuits is the first book to provide a complete overview of the subject It is essential reading for all design and test professionals as well as researchers and students working in the field A strength of this book is its breadth Types of designs considered include analog and digital circuits programmable logic arrays and memories Having a fault model does not automatically provide a test Sometimes design for testability hardware is necessary Many design for testability ideas supported by experimental evidence are included from the Foreword by Vishwani D Agrawal

From Contamination to Defects, Faults and Yield Loss Jitendra B. Khare,Wojciech Maly,2012-12-06 Over the years there has been a large increase in the functionality available on a single integrated circuit This has been mainly achieved by a continuous drive towards smaller feature sizes larger dies and better packing efficiency However this greater functionality has also resulted in substantial increases in the capital investment needed to build fabrication facilities Given such a high level of investment it is critical for IC manufacturers to reduce manufacturing costs and get a better return on their investment The most obvious method of reducing the manufacturing cost per die is to improve manufacturing yield Modern VLSI research and engineering which includes design manufacturing and testing encompasses a very broad range of disciplines such as chemistry physics material science circuit design mathematics and computer science Due to this diversity the VLSI arena has become fractured into a number of separate sub domains with little or no interaction between them This is the case with the relationships between testing and manufacturing From Contamination to Defects Faults and Yield Loss Simulation and Applications focuses on the core of the interface between manufacturing and testing i e the contamination defect fault relationship The understanding of this relationship can lead to better solutions of many manufacturing and testing problems Failure mechanism models are developed and presented which can be used to accurately estimate probability of different failures for a given IC This information is critical in solving key yield related applications such as failure analysis fault modeling and design manufacturing   **Cost Analysis Of Electronic Systems (Second Edition)** Peter Sandborn,2016-12-15 This book provides an introduction to the cost modeling for electronic systems that is suitable for advanced undergraduate and graduate students in electrical mechanical and industrial engineering and professionals involved with electronics technology development and management This book melds elements of traditional engineering economics with manufacturing process and life cycle cost management concepts to form a practical foundation for predicting the cost of electronic products and systems Various manufacturing cost analysis methods are addressed including process flow parametric cost of ownership and activity based costing The effects of learning curves data uncertainty test and rework processes and defects are considered Aspects of system sustainment and life cycle cost modeling including reliability warranty burn in maintenance sparing and availability and obsolescence are treated Finally total cost of ownership of systems return on investment cost benefit analysis and real options analysis are addressed   **1995 IEEE TENCON**

Institute of Electrical and Electronics Engineers. Region 10. Conference on Microelectronics and VLSI,1995 *Cost Analysis of Electronic Systems* Peter Sandborn,2013 Understanding the cost ramifications of design manufacturing and life cycle management decisions is of central importance to businesses associated with all types of electronic systems Cost Analysis of Electronic Systems contains carefully developed models and theory that practicing engineers can directly apply to the modeling of costs for real products and systems In addition this book brings to light and models many contributions to life cycle costs that practitioners are aware of but never had the tools or techniques to address quantitatively in the past Cost Analysis of Electronic Systems melds elements of traditional engineering economics with manufacturing process and life cycle cost management concepts to form a practical foundation for predicting the cost of electronic products and systems Various manufacturing cost analysis methods are addressed including process flow parametric cost of ownership and activity based costing The effects of learning curves data uncertainty test and rework processes and defects are considered Aspects of system sustainment and life cycle cost modeling including reliability warranty burn in maintenance sparing and availability and obsolescence are treated Finally total cost of ownership of systems and return on investment are addressed Real life design scenarios from integrated circuit fabrication electronic systems assembly substrate fabrication and electronic systems managementare used as examples of the application of the cost estimation methods developed within the book Springer Handbook of Engineering Statistics Hoang Pham,2006 In today s global and highly competitive environment continuous improvement in the processes and products of any field of engineering is essential for survival This book gathers together the full range of statistical techniques required by engineers from all fields It will assist them to gain sensible statistical feedback on how their processes or products are functioning and to give them realistic predictions of how these could be improved The handbook will be essential reading for all engineers and engineering connected managers who are serious about keeping their methods and products at the cutting edge of quality and competitiveness Compound Semiconductor Device Modelling Christopher M. Snowden,Robert E. Miles,2012-12-06 Compound semiconductor devices form the foundation of solid state microwave and optoelectronic technologies used in many modern communication systems In common with their low frequency counterparts these devices are often represented using equivalent circuit models but it is often necessary to resort to physical models in order to gain insight into the detailed operation of compound semiconductor devices Many of the earliest physical models were indeed developed to understand the unusual phenomena which occur at high frequencies Such was the case with the Gunn and IMPATI diodes which led to an increased interest in using numerical simulation methods Contemporary devices often have feature sizes so small that they no longer operate within the familiar traditional framework and hot electron or even quantum mechanical models are required The need for accurate and efficient models suitable for computer aided design has increased with the demand for a wider range of integrated devices for operation at microwave millimetre and optical frequencies The apparent complexity of equivalent circuit and physics based models distinguishes high

frequency devices from their low frequency counterparts Over the past twenty years a wide range of modelling techniques have emerged suitable for describing the operation of compound semiconductor devices This book brings together for the first time the most popular techniques in everyday use by engineers and scientists The book specifically addresses the requirements and techniques suitable for modelling GaAs InP ternary and quaternary semiconductor devices found in modern technology **FPGA ...** ,2006 Simulation of Semiconductor Devices and Processes Heiner Ryssel,Peter Pichler,2012-12-06 SISDEP 95 provides an international forum for the presentation of state of the art research and development results in the area of numerical process and device simulation Continuously shrinking device dimensions the use of new materials and advanced processing steps in the manufacturing of semiconductor devices require new and improved software The trend towards increasing complexity in structures and process technology demands advanced models describing all basic effects and sophisticated two and three dimensional tools for almost arbitrarily designed geometries The book contains the latest results obtained by scientists from more than 20 countries on process simulation and modeling simulation of process equipment device modeling and simulation of novel devices power semiconductors and sensors on device simulation and parameter extraction for circuit models practical application of simulation numerical methods and software InP HBTs B. Jalali,S. J. Pearton,1995 This work provides a comprehensive overview of current InP HBT technology and its applications Each chapter is written by a world renowned expert on topics including crystal growth processing physics modelling and digital and analog circuits **Reliability, Yield, and Stress Burn-In** Way Kuo,Wei-Ting Kary Chien,Taeho Kim,1998-01-31 The international market is very competitive for high tech manufacturers to day Achieving competitive quality and reliability for products requires leader ship from the top good management practices effective and efficient operation and maintenance systems and use of appropriate up to date engineering de sign tools and methods Furthermore manufacturing yield and reliability are interrelated Manufacturing yield depends on the number of defects found dur ing both the manufacturing process and the warranty period which in turn determines the reliability the production of microelectronics has evolved into Since the early 1970 s one of the world s largest manufacturing industries As a result an important agenda is the study of reliability issues in fabricating microelectronic products and consequently the systems that employ these products particularly the new generation of microelectronics Such an agenda should include the economic impact of employing the microelectronics fabricated by in dustry a study of the relationship between reliability and yield the progression toward miniaturization and higher reliability and the correctness and complexity of new system designs which include a very significant portion of software **Semiconductor Manufacturing Handbook 2E (PB)** Hwaiyu Geng,2017-10-06 Thoroughly Revised State of the Art Semiconductor Design Manufacturing and Operations Information Written by 70 international experts and reviewed by a seasoned technical advisory board this fully updated resource clearly explains the cutting edge processes used in the design and fabrication of IC chips MEMS sensors and other electronic

devices Semiconductor Manufacturing Handbook Second Edition covers the emerging technologies that enable the Internet of Things the Industrial Internet of Things data analytics artificial intelligence augmented reality and and smart manufacturing You will get complete details on semiconductor fundamentals front and back end processes nanotechnology photovoltaics gases and chemicals fab yield and operations and facilities Nanotechnology and microsystems manufacturing FinFET and nanoscale silicide formation Physical design for high performance low power 3D circuits Epitaxi anneals RTP and oxidation Microlithography etching and ion implantations Physical chemical electrochemical and atomic layer vapor deposition Chemical mechanical planarization Atomic force metrology Packaging bonding and interconnects Flexible hybrid electronics Flat panel flexible display electronics and photovoltaics Gas distribution systems Ultrapure water and filtration Process chemicals handling and abatement Chemical and slurry handling systems Yield management CIM and factory automation Manufacturing execution systems Advanced process control Airborne molecular contamination ESD controls in clean room environments Vacuum systems and RF plasma systems IC manufacturing parts cleaning technology Vibration and noise design And much more   *Product Reliability* D. N. Prabhakar Murthy,Marvin Rausand,Trond Østerås,2008-05-23 Currently reliability issues are not addressed effectively in new product development Product reliability depends on the technical decisions made in the early stages and the impact of commercial outcomes in the latter stages With an effective methodology for reliability performance and specification one can make better decisions Product Reliability develops a framework linking reliability specifications and product performance in new product development by 1 considering how customer needs and business aims can be translated into product development so that desired performance is met exceeded 2 discussing the data requirements tools and techniques needed to build models vital to decision making 3 providing an approach applicable to many products This book is suitable for managers and engineers involved in new product design It can be used as a text for graduate courses on design manufacturing new product development and operations management and in various engineering disciplines   **Conference Proceedings** ,1995

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