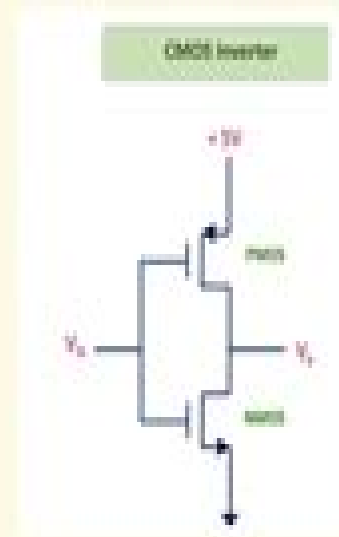


# CMOS - Overview

**CMOS stands for Complementary Metal-Oxide-Semiconductor. It's a technology used to make low-power, reliable electronic circuits for digital devices, including computers, microcontrollers, and memory chips.**

**CMOS is a type of metal-oxide-semiconductor field-effect transistor (MOSFET) fabrication process. It uses symmetrical pairs of p-type and n-type MOSFETs for logic functions.**



# Testing And Reliable Design Of Cmos Circuits

**John P. Uyemura**



## **Testing And Reliable Design Of Cmos Circuits:**

*Testing and Reliable Design of CMOS Circuits* Niraj K. Jha, Sandip Kundu, 2012-12-06 In the last few years CMOS technology has become increasingly dominant for realizing Very Large Scale Integrated VLSI circuits. The popularity of this technology is due to its high density and low power requirement. The ability to realize very complex circuits on a single chip has brought about a revolution in the world of electronics and computers. However, the rapid advancements in this area pose many new problems in the area of testing. Testing has become a very time-consuming process. In order to ease the burden of testing, many schemes for designing the circuit for improved testability have been presented. These design for testability techniques have begun to catch the attention of chip manufacturers. The trend is towards placing increased emphasis on these techniques. Another byproduct of the increase in the complexity of chips is their higher susceptibility to faults. In order to take care of this problem, we need to build fault-tolerant systems. The area of fault-tolerant computing has steadily gained in importance. Today many universities offer courses in the areas of digital system testing and fault-tolerant computing. Due to the importance of CMOS technology, a significant portion of these courses may be devoted to CMOS testing. This book has been written as a reference text for such courses offered at the senior or graduate level. Familiarity with logic design and switching theory is assumed. The book should also prove to be useful to professionals working in the semiconductor industry.

Essentials of Electronic Testing for Digital, Memory and Mixed-Signal VLSI Circuits M. Bushnell, Vishwani Agrawal, 2006-04-11 The modern electronic testing has a forty-year history. Test professionals hold some fairly large conferences and numerous workshops. There is a journal and there are over one hundred books on testing. Still, a full course on testing is offered only at a few universities, mostly by professors who have a research interest in this area. Apparently, most professors would not have taken a course on electronic testing when they were students. Other than the computer engineering curriculum being too crowded, the major reason cited for the absence of a course on electronic testing is the lack of a suitable textbook. For VLSI, the foundation was provided by semiconductor device technology, circuit design, and electronic testing. In a computer engineering curriculum, therefore, it is necessary that foundations should be taught before applications. The field of VLSI has expanded to systems on a chip which include digital memory and mixed-signal subsystems. To our knowledge, this is the first textbook to cover all three types of electronic circuits. We have written this textbook for an undergraduate foundations course on electronic testing. Obviously, it is too voluminous for a one-semester course, and a teacher will have to select from the topics. We did not restrict such freedom because the selection may depend upon the individual expertise and interests. Besides, there is merit in having a larger book that will retain its usefulness for the owner even after the completion of the course. With equal tenacity, we address the needs of three other groups of readers.

Hierarchical Modeling for VLSI Circuit Testing Debashis Bhattacharya, John P. Hayes, 2012-12-06 Test generation is one of the most difficult tasks facing the designer of complex VLSI-based digital systems. Much of this difficulty is attributable to

the almost universal use in testing of low gate level circuit and fault models that predate integrated circuit technology It is long been recognized that the testing problem can be alleviated by the use of higher level methods in which multigate modules or cells are the primitive components in test generation however the development of such methods has proceeded very slowly To be acceptable high level approaches should be applicable to most types of digital circuits and should provide fault coverage comparable to that of traditional low level methods The fault coverage problem has perhaps been the most intractable due to continued reliance in the testing industry on the single stuck line SSL fault model which is tightly bound to the gate level of abstraction This monograph presents a novel approach to solving the foregoing problem It is based on the systematic use of multibit vectors rather than single bits to represent logic signals including fault signals A circuit is viewed as a collection of high level components such as adders multiplexers and registers interconnected by  $n$  bit buses To match this high level circuit model we introduce a high level bus fault that in effect replaces a large number of SSL faults and allows them to be tested in parallel However by reducing the bus size from  $n$  to one we can obtain the traditional gate level circuit and models

Thermal Testing of Integrated Circuits J. Altet, Antonio Rubio, 2013-03-09 Integrated circuits ICs have undergone a significant evolution in terms of complexity and performance as a result of the substantial advances made in manufacturing technology Circuits in their various mixed formats can be made up tens or even hundreds of millions of devices They work at extremely low voltages and switch at very high frequencies Testing of circuits has become an essential process in IC manufacturing in the effort to ensure that the manufactured components have the appropriate levels of quality Along with the ongoing trend towards more advanced technology and circuit features major testing challenges are continuously emerging The use of ambivalent procedures to test the analogue and digital sections of such complex circuits without interfering in their nominal operation is clearly a critical part of today's technological industries Chapter 1 presents the general purposes and basic concepts related With the testing of integrated circuits discussing the various strategies and their limitations Readers who are already familiar with the field may opt to skip this chapter This book offers a multidisciplinary focus on thermal testing This is a testing method which is not only suitable for use in combination with other existing techniques but is also backed by a wealth of knowledge and offers exciting opportunities in the form of as yet unexplored areas of research and innovation for industrial applications

IEEE Circuits & Devices, 2006 **On-Line Testing for VLSI** Michael Nicolaidis, Yervant Zorian, Dhiraj K. Pradhan, 1998-04-30 Test functions fault detection diagnosis error correction repair etc that are applied concurrently while the system continues its intended function are defined as on line testing In its expanded scope on line testing includes the design of concurrent error checking subsystems that can be themselves self checking fail safe systems that continue to function correctly even after an error occurs reliability monitoring and self test and fault tolerant designs On Line Testing for VLSI contains a selected set of articles that discuss many of the modern aspects of on line testing as faced today The contributions are largely derived from recent IEEE International On

Line Testing Workshops Guest editors Michael Nicolaidis Yervant Zorian and Dhiraj Pradhan organized the articles into six chapters In the first chapter the editors introduce a large number of approaches with an expanded bibliography in which some references date back to the sixties On Line Testing for VLSI is an edited volume of original research comprising invited contributions by leading researchers Introduction to VLSI Circuits and Systems John P. Uyemura, 2002 CD ROM contains AIM SPICE from AIM Software Micro Cap 6 from Spectrum Software Silos III Verilog Simulator from Simucad Adobe Acrobat Reader 4.0 from Adobe **Microcircuit Reliability Bibliography**, 1974 **International Test Conference, 1993**, 1993 Annotation Proceedings of the 24th International Test Conference held in Baltimore October 1993 the premier conference for the testing of electronic devices assemblies and systems including design for testability and diagnostics This year's leading edge topics are mixed signal testing multichip modules systems test automatic synthesis of test structures in design boundary scan and Iddq Core topics represented included ATPG modeling test equipment hardware delay fault testing software testing DFT applied BIST board testing memory and microprocessor testing test economics and test quality and reliability Annotation copyright by Book News Inc Portland OR **1994 IEEE International Symposium on Circuits and Systems**, 1994 *IEEE VLSI Test Symposium*, 2005 **Brinkman's catalogus van boeken en tijdschriften**, 2001 With 1901 1910 1956 1960 Repertorium is bound Brinkman's Titel catalogus van de gedurende 1901 1910 1956 1960 Title varies slightly **Proceedings of the ... European Test Conference**, 1993 **Advanced Research in VLSI** Carlo H. Séquin, 1991 This conference is the thirteenth in a series that has been held at CalTech MIT University of North Carolina and Stanford Systems design and integration is the special focus of the 1991 conference **Proceedings**, 1994 Encyclopedia of Computer Science and Technology Allen Kent, James G. Williams, 1997-02-14 Artificial Intelligence in Economics and Management to Requirements Engineering **Brinkman's cumulatieve catalogus van boeken**, 1991 Voorts een alfabetische lijst van Nederlandsche boeken in België uitgegeven **19th IEEE VLSI Test Symposium**, 2001 Collects 58 papers from the April May 2001 symposium that explore new approaches in the testing of electronic circuits and systems Key areas in testing are discussed such as BIST analog measurement fault tolerance diagnosis methods scan chain design memory test and diagnosis and test data compression and compaction Also on the program are sessions on emerging areas that are gaining prominence including low power testing testing high speed circuits on low cost testers processor based self test techniques and core based system on chip testing Some of the topics are robust and low cost BIST architectures for sequential fault testing in datapath multipliers a method for measuring the cycle to cycle period jitter of high frequency clock signals fault equivalence identification using redundancy information and static and dynamic extraction and test scheduling for minimal energy consumption under power constraints No subject index c Book News Inc **A Probabilistic Analysis of Test Response Compaction** Slawomir Pilarski, Tiko Kameda, 1995 Synthesizes recent findings on the chance of missing a faulty circuit when the data from testing microelectronic systems is compacted to be more

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