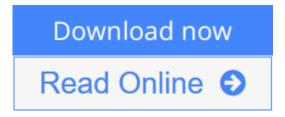# Digital Circuit Testing and Testability (The Morgan Kaufmann Series in Computer Architecture and Design)

By Parag K. Lala

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In the past few years, reliable hardware system design has become increasingly important in the computer industry. **Digital Circuit Testing and Testability** is an easy to use introduction to the practices and techniques in this field.
Parag K. Lala writes in a user-friendly and tutorial style, making the book easy to read, even for the newcomer to fault-tolerant system design. Each informative chapter is self-contained, with little or no previous knowledge of a topic assumed. Extensive references follow each chapter, making further research in a particular area readily available. Each chapter covers a different aspect or technological component of fault-tolerant system design, and this book is an excellent compilation of up-to-date information in an area where such a book is needed.

Key Features
* Contains the most up-to-date information on fault modeling in CMOS devices
* Provides comprehensive coverage of self-checking logic design at the gate and the transistor level
* Discusses the latest techniques available for testing state machines
* Presents a collection of methods for testable logic synthesis
* Provides state-of-the-art information on Built-in-self-testing
* Includes detailed coverage of memory testing
* Discusses all major techniques for fault-tolerant hardware design

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Digital Circuit Testing and Testability (The Morgan Kaufmann Series in Computer Architecture and Design) By Parag K. Lala Bibliography

- Sales Rank: #245032 in Books
- Published on: 1997-01-28
- Original language: English
- Number of items: 1
- Dimensions: .80" h x 6.29" w x 9.30" l,
- Binding: Hardcover
- 199 pages

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Editorial Review

About the Author
The author is currently a Professor in the Department of Electrical Engineering at North Carolina A&T State University. He is the author of more than 75 papers, and three books published by Prentice Hall. His research interests include design for testability, self-checking logic design, automatic logic synthesis of low power logic circuits, andCPLD/FPGA based system design. He received a M.S. from King's College, London, and a Ph.D. from the City University of London.

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