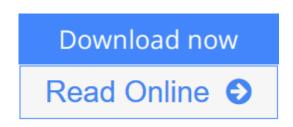


Principles of VLSI RTL Design: A Practical Guide

By Sanjay Churiwala, Sapan Garg



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Since register transfer level (RTL) design is less about being a bright engineer, and more about knowing the downstream implications of your work, this book explains the impact of design decisions taken that may give rise later in the product lifecycle to issues related to testability, data synchronization across clock domains, synthesizability, power consumption, routability, etc., all which are a function of the way the RTL was originally written. Readers will benefit from a highly practical approach to the fundamentals of these topics, and will be given clear guidance regarding necessary safeguards to observe during RTL design.

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Principles of VLSI RTL Design: A Practical Guide By Sanjay Churiwala, Sapan Garg Bibliography

- Sales Rank: #1725501 in Books
- Brand: Brand: Springer New York
- Published on: 2011-05-12
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .50" w x 6.14" l, .95 pounds
- Binding: Hardcover
- 182 pages

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Editorial Review

From the Back Cover

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In the process of integrated circuit design, front-end activities start with a register transfer level (RTL) description, of the functionality desired from the IC.? During subsequent steps in the design flow, issues may arise related to testability, data synchronization across clock domains, synthesizability, power consumption, routability, etc. which are a function of the way the RTL was originally written.

As a result, RTL designers need to take care of many aspects which can have impact on later steps in the design process. Since RTL design is less about being a bright engineer, and more about knowing the downstream implications of your work, this book explains those various aspects, their significance, what caution needs to be taken during RTL design and why.? Readers will benefit from a highly practical approach to the fundamentals of uncertainties around functionality, clock domain crossing and clock synchronization, design for test and testability, power consumption, static timing analysis, timing exception handling, and routing congestion.

Hopefully, this book will find its place in the hearts and minds of anyone who generates RTL code. This includes RTL designers as well as those writing tools that generate RTL. Relatively new RTL designers will find this book to be a single-source of interesting, rich and useful knowledge.? Experienced RTL designers will be able to appreciate and cement some already known concepts, given the focus on practical situations encountered in real designs. ?

* Provides a highly accessible, single-source reference to all key topics essential to an RTL designer;

* Describes in detail specific actions/cautions that designer needs to consider in design to avoid problems in downstream implementation;

* Covers content based on practical experience with numerous real designs from large semiconductor design companies.

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Users Review

From reader reviews:

Luther Roberts:

What do you regarding book? It is not important together with you? Or just adding material when you really need something to explain what you problem? How about your extra time? Or are you busy person? If you don't have spare time to accomplish others business, it is give you a sense of feeling bored faster. And you have spare time? What did you do? Every individual has many questions above. They must answer that question since just their can do that will. It said that about book. Book is familiar in each person. Yes, it is appropriate. Because start from on pre-school until university need this kind of Principles of VLSI RTL Design: A Practical Guide to read.

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