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A Designer's Guide To Asynchronous VLSI



Synopsis

Bypass the limitations of synchronous design and create low power, higher performance circuits with shorter design times using this practical guide to asynchronous design. The fundamentals of asynchronous design are covered, as is a large variety of design styles, while the emphasis throughout is on practical techniques and real-world applications.

Book Information

Hardcover: 352 pages

Publisher: Cambridge University Press; 1 edition (March 15, 2010)

Language: English

ISBN-10: 0521872448

ISBN-13: 978-0521872447

Product Dimensions: 6.8 x 0.8 x 9.7 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

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Peter A. Beerel is CEO of TimeLess Design Automation - his own company commercializing asynchronous VLSI tools and libraries - and an Associate Professor in the Electrical Engineering Department at the University of Southern California (USC). Dr Beerel has 15 years experience of research and teaching in asynchronous VLSI and has received numerous awards including the VSoE Outstanding Teaching Award in 1997 and the 2008 IEEE Region 6 Outstanding Engineer Award for significantly advancing the application of asynchronous circuits to modern VLSI chips. Recep O. Ozdag is IC Design Manager at Fulcrum Microsystems and a part-time Lecturer at USC, where he received his Ph.D. in 2004. He is a recipient of the British Chevening Scholarship,

the Turkish Ministry of Education Post-Graduate Scholarship and the Turkish Higher Education Council Scholarship. Marcos Ferretti is one of the founders of PST Eletronica S. A. (Positron), Brazil - an automotive electronic systems manufacturing company, where he is currently Vice President of Technology. He received his Ph.D. from the University of Southern California (USC) in 2004 and was co-recipient of the USC Electrical Engineering-Systems Best Paper Award in the same year.

I've read this book during a research I'm conducting in the field of asynchronous VLSI. This is a wonderfully organized book: The book begins with a short review on the field of Asynchronous VLSI - what have been done in the field so far, what are the difficulties and what are the advantages and disadvantages of implementing asynchronous VLSI. Later on, several asynchronous handshaking protocols are described and explained, accompanied with examples and waveforms which really helped me understand some pretty complex ideas. In addition, VerilogCSP is introduced, providing the reader with an easy way to practice and get an "hands-on" experience with asynchronous VLSI (no need for propriety tools - any Verilog simulator will do!). The book continues with more complex concepts, like Micropipelines & QDI pipeline templates, which are explained very intuitively and are always followed by diagrams and exercises for the reader. All in all, I think it is a very good place to start with, if you are interested in the field of asynchronous VLSI. It helped me a lot and I really enjoyed reading it! I absolutely recommend it.

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