



Principles of Verifiable RTL Design: A functional coding style supporting verification processes in Verilog (Paperback)

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Springer-Verlag New York Inc., United States, 2013. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.System designers, computer scientists and engineers have continuously invented and employed notations for modeling, specifying, simulating, documenting, communicating, teaching, verifying and controlling the designs of digital systems. Initially these systems were represented via electronic and fabrication details. Following C. E. Shannon's revelation of 1948, logic diagrams and Boolean equations were used to represent digital systems in a fashion that de-emphasized electronic and fabrication detail while revealing logical behavior. A small number of circuits were made available to remove the abstraction of these representations when it was desirable to do so. As system complexity grew, block diagrams, timing charts, sequence charts, and other graphic and symbolic notations were found to be useful in summarizing the gross features of a system and describing how it operated. In addition, it always seemed necessary or appropriate to augment these documents with lengthy verbal descriptions in a natural language. While each notation was, and still is, a perfectly valid means of expressing a design, lack of standardization, conciseness, and formal definitions interfered with communication and the understanding...



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