A priori Wire Length Estimates for Digital Design

By Dirk Stroobandt

Springer. Hardcover. Book Condition: New. This item is printed on demand. Hardcover. 324 pages. The design of digital (computer) systems requires several design phases: from the behavioural design, over the logical structural design to the physical design, where the logical structure is implemented in the physical structure of the system (the chip). Due to the ever increasing demands on computer system performance, the physical design phase being one of the most complex design steps in the entire process. The major goal of this book is to develop a priori wire length estimation methods that can help the designer in finding a good lay-out of a circuit in less iterations of physical design steps and that are useful to compare different physical architectures. For modelling digital circuits, the interconnection complexity is of major importance. It can be described by the so called Rents rule and the Rent exponent. A Priori Wire Length Estimates for Digital Design will provide the reader with more insight in this rule and clearly outlines when and where the rule can be used and when and where it fails. Also, for the first time, a comprehensive model for the partitioning behaviour of multi-terminal nets is developed. This...

READ ONLINE
[4.89 MB]

Reviews

Completely one of the best publication I actually have ever study. I really could comprehended almost everything out of this written e publication. Your daily life span will likely be change as soon as you total reading this publication.
-- Prof. Adolph Wisoky

This ebook may be worth a go through, and superior to other. I could comprehended every thing out of this published e pdf. It is extremely difficult to leave it before concluding, once you begin to read the book.
-- Prof. Damien Schuster PhD