Photonic Network-on-Chip Design (Integrated Circuits and Systems)

Keren Bergman, Luca P. Carloni, Aleksandr Biberman, Johnnie Chan, Gilbert Hendry

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This book provides a comprehensive synthesis of the theory and practice of photonic devices for networks-on-chip. It outlines the issues in designing photonic network-on-chip architectures for future many-core high performance chip multiprocessors. The discussion is built from the bottom up: starting with the design and implementation of key photonic devices and building blocks, reviewing networking and network-on-chip theory and existing research, and finishing with describing various architectures, their characteristics, and the impact they will have on a computing system. After acquainting the reader with all the issues in the design space, the discussion concludes with design automation techniques, supplemented by provided software.

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