



Networks on chips [technology and tools /

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Monografía

The design of today's semiconductor chips for various applications, such as telecommunications, poses various challenges due to the complexity of these systems. These highly complex systems-on-chips demand new approaches to connect and manage the communication between on-chip processing and storage components and networks on chips (NoCs) provide a powerful solution. This book is the first to provide a unified overview of NoC technology. It includes in-depth analysis of all the on-chip communication challenges, from physical wiring implementation up to software architecture, and a complete classification of their various Network-on-Chip approaches and solutions. * Leading-edge research from world-renowned experts in academia and industry with state-of-the-art technology implementations/trends * An integrated presentation not currently available in any other book * A thorough introduction to current design methodologies and chips designed with NoCs

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Autores: De Micheli, Giovanni

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es