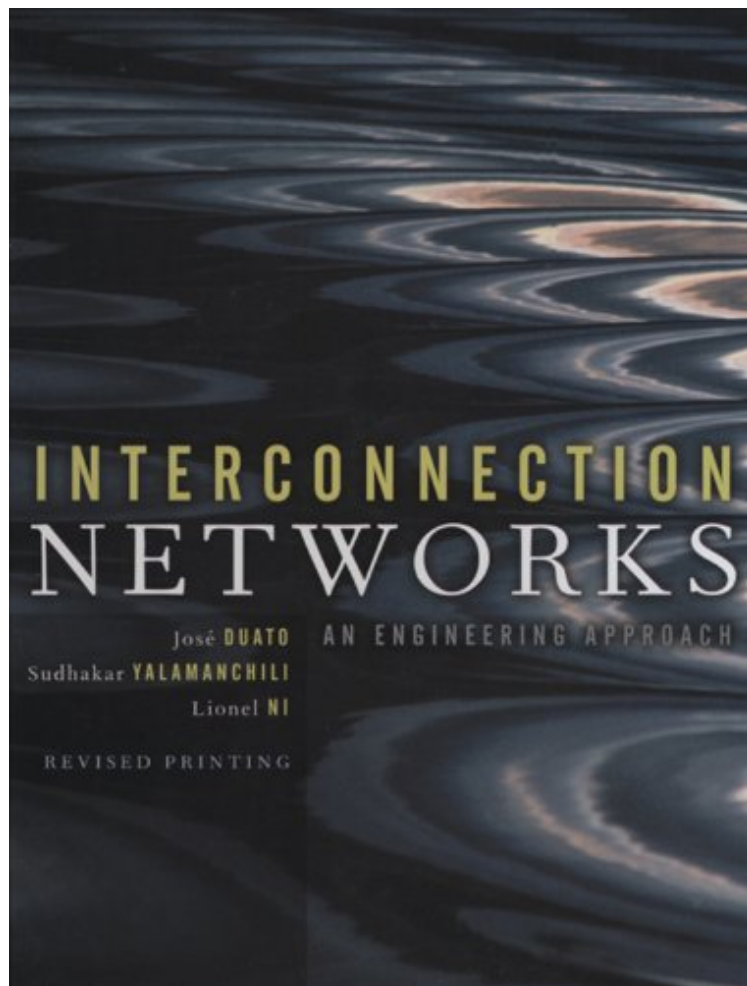


(Ebook pdf) Interconnection Networks: An Engineering Approach (The Morgan Kaufmann Series in Computer Architecture and Design)

Interconnection Networks: An Engineering Approach (The Morgan Kaufmann Series in Computer Architecture and Design)

Von Jose Duato, Sudhakar Yalamanchili, Lionel Ni
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Von Jose Duato, Sudhakar Yalamanchili, Lionel Ni : Interconnection Networks: An Engineering Approach (The Morgan Kaufmann Series in Computer Architecture and Design) before purchasing it in order to gage whether or not it would be worth my time, and all praised Interconnection Networks: An Engineering Approach (The Morgan Kaufmann Series in Computer Architecture and Design):

Kundenrezensionen Hilfreichste Kundenrezensionen 1 von 1 Kunden fanden die folgende Rezension hilfreich.
Excellent Von Ein Kunde There are many textbooks on interconnection networks for high performance parallel computers; however, in my opinion, this is the best one that I have ever seen. It provides an in-depth study concerning wormhole routing collective communications, fault tolerant issues, router architectures, and performance evaluation in

the new generation parallel computers. Jose Duato and Lionel Ni are the famous masters of this field, especially on deadlock problems, and this book proves that again. The writing style is very clear and easily understandable with large examples. So, reading this book is much more delicious than reading technical and survey papers. Besides, authors also provide two simulators. The first simulator can be downloaded and installed from [...] And the second simulator can be run interactively from the web [...] To sum up, if you want to learn about data communications on interconnection networks, I would definitely recommend picking up a copy of this book - I was very happy to have bought and read it.

KurzbeschreibungThe performance of most digital systems today is limited by their communication or interconnection, not by their logic or memory. As designers strive to make more efficient use of scarce interconnection bandwidth, interconnection networks are emerging as a nearly universal solution to the system-level communication problems for modern digital systems. Interconnection networks have become pervasive in their traditional application as processor-memory and processor-processor interconnect. Point-to-point interconnection networks have replaced buses in an ever widening range of applications that include on-chip interconnect, switches and routers, and I/O systems. In this book, the authors present in a structured way the basic underlying concepts of most interconnection networks and provide representative solutions that have been implemented in the industry or proposed in the research literature.* Gives a coherent, comprehensive treatment of the entire field* Presents a formal statement of the basic concepts, alternative design choices, and design trade-offs* Provides thorough classifications, clear descriptions, accurate definitions, and unified views to structure the knowledge on interconnection networks* Focuses on issues critical to designers

Pressestimmen"This book, for the first time, makes the technology of interconnection networks accessible to the engineering student and the practicing engineer. The authors are three key members of the research community and are responsible for developing much of the technology described. Their unique knowledge and rare insight into the material make for a technically rich treatment that brings together the best of many research papers and fills in the gaps by putting the work into context. In an era when digital systems design is dominated by interconnect, every digital designer needs to understand the concepts of topology, routing, and flow control on which interconnection networks are based. There is no better way for an engineer to come up to speed on interconnection networks than by reading this book."--From the foreword by Bill Dally, Professor, Stanford University--This book, for the first time, makes the technology of interconnection networks accessible to the engineering student and the practicing engineer. The authors are three key members of the research community and are responsible for developing much of the technology described. Their unique knowledge and rare insight into the material make for a technically rich treatment that brings together the best of many research papers and fills in the gaps by putting the work into context. In an era when digital systems design is dominated by interconnect, every digital designer needs to understand the concepts of topology, routing, and flow control on which interconnection networks are based. There is no better way for an engineer to come up to speed on interconnection networks than by reading this book.--From the foreword by Bill Dally, Professor, Stanford University

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