#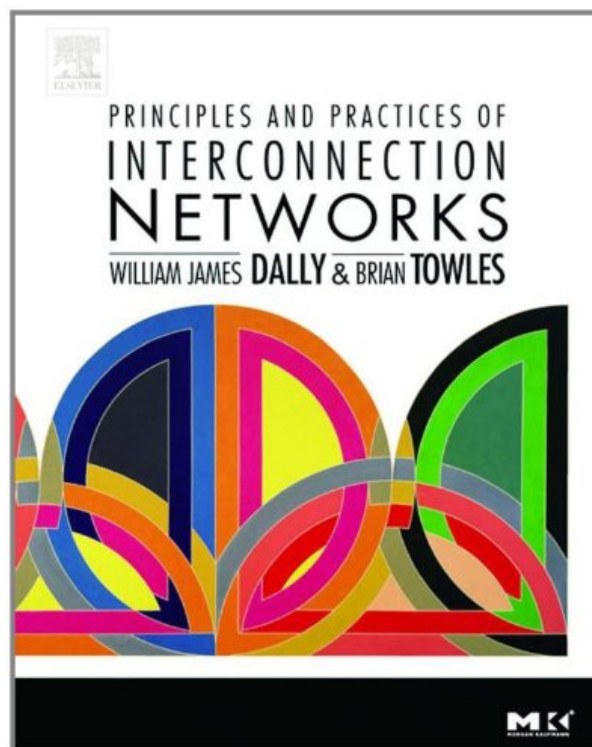 PRINCIPLES AND PRACTICES OF INTERCONNECTION NETWORKS (THE MORGAN KAUFMANN SERIES IN COMPUTER ARCHITECTURE AND DESIGN) BY WILLIAM JAMES DA

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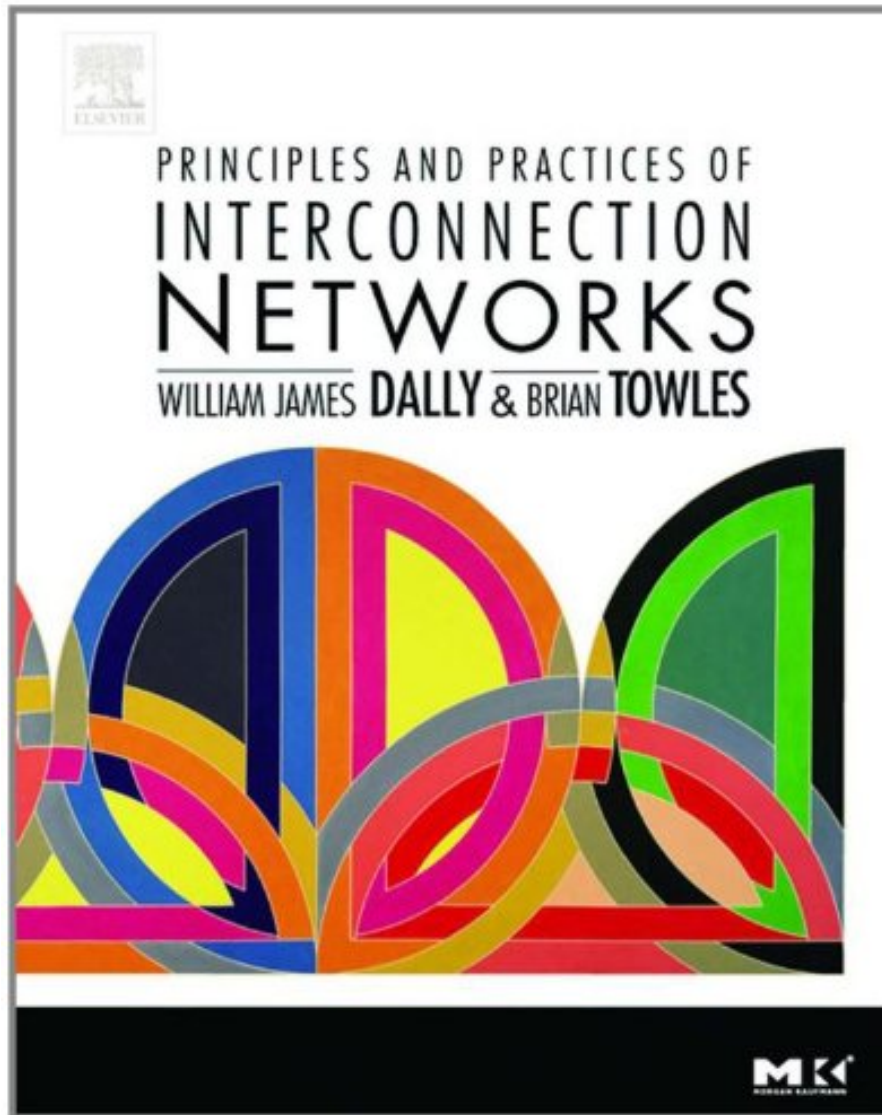
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-Mark Hill, University of Wisconsin, Madison

The scholarship of this book is unparalleled in its area. This text is for interconnection networks what Hennessy and Patterson's text is for computer architecture---an authoritative, one-stop source that clearly and methodically explains the more significant concepts. Treatment of the material both in breadth and in depth is very well done...a must read and a slam dunk!
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This book will serve as excellent teaching material, an invaluable research reference, and a very handy supplement for system designers. In addition to documenting and clearly presenting the key research findings, the book's incisive practical treatment is unique. By presenting how actual design constraints impact each facet of interconnection network design, the book deftly ties theoretical findings of the past decades to real systems design. This perspective is critically needed in engineering education.
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This well-organized textbook will benefit both students and experienced practitioners. The presentation and exercises are a result of years of classroom experience in creating this material. All in all, this is a must-have source of information.
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Features

·Case studies throughout the book draw on extensive author experience in designing interconnection networks, providing real world examples of what works and what doesn"t.

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·A set of examples and exercises in every chapter help the reader to fully understand all the implications of every design decision.

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Most helpful customer reviews

8 of 10 people found the following review helpful.
Outstanding text for practitioners and academics alike
By Dennis C. Abts
This book provides the reader with a comprehensive text on interconnection networks. Dally and Towles provide a thorough treatment of the impact of system packaging, topology, and routing algorithms on the overall system performance. Numerous examples of systems from both industry (Cray, SGI) and academia (MIT J-Machine) are provided to illustrate the concepts in practice. Every computer architect should own this book, whether they are doing on-chip networks, IP routers, network processors, or large-scale supercomputers.

6 of 7 people found the following review helpful.
only presents very simple cases, not always sound in fundamentals
By raindrops
I had high expectations for this book given the table of contents. In particular, I was interested in chapters on arbitration, flow control, live lock and dead lock. These are topics that I have not seen comprehensive coverage on elsewhere. What I found was that most of the text is spent on describing very simple cases, in a wordy manner that actually makes the easy cases harder to understand. The book stops as soon as there is the least bit of complexity. This is very disappointing as it doesn't even mention the limited cases that I'm aware of. It certainly falls very short of providing a comprehensive survey of known complexities in these subjects.

On the topic of flow control, I was appalled to see it described as a way to utilize existing buffer resources as if the number of buffers are decided ahead of time, independent of flow control when the number of buffers are actually an integral part of flow control decisions. I was further shocked to see diagrams that only show one node in explaining flow control when flow control is fundamentally about communication between two nodes. Zooming in on one of the two nodes is really missing the basics of flow control.

As a result, I cannot recommend this book.

8 of 11 people found the following review helpful.
An excellent text
By Srini
This book is the "Hennessy & Patterson" for interconnection networks area. The book covers almost all aspects of theoritical and practical issues involved in designing interconnection networks. The concepts are presented in very simple fashion. A very well written exahaustive text. Must read for any computer architect!

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