



## Network Analysis, Architecture and Design, Second Edition (The Morgan Kaufmann Series in Networking)

By James D. McCabe

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### Network Analysis, Architecture and Design, Second Edition (The Morgan Kaufmann Series in Networking) By James D. McCabe

The landscape of networking has changed so that network services have now become one of the most important factors to the success of many third generation networks. It has become an important feature of the designer's job to define the problems that exist in his network, choose and analyze several optimization parameters during the analysis process, and then prioritize and evaluate these parameters in the architecture and design of the system.

Network Analysis, Architecture, and Design, 2e, uses a systems methodology approach to teaching these concepts, which views the network (and the environment it impacts) as part of the larger system, looking at interactions and dependencies between the network and its users, applications, and devices. This approach matches the new business climate where customers drive the development of new services and the book discusses how networks can be architected and designed to provide many different types of services to customers.

This second edition contains an entirely new focus on network architecture, which completes the process from analysis to design. Network architecture takes the input from network analysis and provides a high-level view of the network, focusing on the relationships between major functions of the network, such as security, network management, performance and addressing and routing. A reference architecture, outlining how these functions are to be addressed within the network, serves as the foundation for the network design.

With a number of examples, analogies, instructor tips, and exercises, this book works through the processes of analysis, architecture, and design step by step, giving network designers a solid resource for making good design decisions

\* Substantial revision of the very popular first edition--Practical Computer Network Analysis and Design--by a seasoned network architect who has led numerous design projects in government, commercial, and academic spaces.

\* Effective examples, case studies, worksheets, and end-of-chapter exercises

provide professionals and students with the necessary tools for learning important design issues.

\* Shows how to architect and design a network to provide the desired services and performance levels, and to choose the appropriate network technologies and interconnection strategies to meet architectural and design goals.

\*Instructors can download the solutions to the exercises in the book by clicking on the "Instructors" resource link in the upper right corner of the screen and searching for author "McCabe."

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## **Editorial Review**

From the Back Cover

*If you are designing a real network, if you are the one that gets it done, then this book should be your bible and your guidebook. This volume contains a complete and practical approach to designing a data network, from beginning to success.*

**-David Clark**, Massachusetts Institute of Technology,

*My 1st edition is dog-eared, highlighted and annotated to the point where certain pages are unreadable. The spine is broken - the result of stuffing altogether too many sheets of paper with notes and network designs I developed using Jim's methodology. After my first read of the 2nd edition, I have no expectation that this copy will look any better for wear five years hence.*

**-From the Foreword by David M. Piscitello**, Core Competence Inc.

The first edition of this book guided thousands of network professionals during a period of breakneck technological and economic development. The second comes at a time when a measured, truly systematic approach to planning and building networks is more possible and more desirable than ever.

Inside, you'll learn a coherent, highly effective systems methodology that has been fully updated to incorporate the latest innovations in the analysis of user needs, performance requirements, and traffic flow. An increased emphasis—represented by five all-new chapters—on network architecture teaches you ways to introduce critical issues of addressing and routing, security, and management earlier in the design process.

This is vital, hands-on information, whether you're building a network from scratch or working to optimize and expand an existing one.

About the Author

**James D. McCabe** is currently a network architect for NASA. McCabe's interest in network analysis and design dates from the late 1980s, when he first worked on designs for NASA's aerospace supercomputing networks. Subsequent designs for various commercial, government and academic networks led him to develop and publish the processes described in this book, which he also teaches to students at various corporations and conferences. McCabe holds a degree in chemical engineering from the Georgia Institute of Technology.

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Updated and expanded revision includes an entirely new section on architecture as well as completely revised material on analysis and design.

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**From reader reviews:**

**Grady Meraz:**

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**Bruce Williamson:**

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