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

James D. McCabe

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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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