

(Point-to-Point Protocol), and explains how to establish remote connections to LANs.

Part V summarizes the basics of internetwork design: bridging, routing, and switching. Goldman explains the important contribution of protocols to successful inter-networking design and implementation. Finally, Goldman discusses all aspects of LAN remote access.

Part VI gives the motivation and necessary details for building enterprise networks. It also describes basic kinds of enterprise network applications, such as database and security applications.

The book is on a high editorial level; the chapters have a nice appearance, and the book is easy to read. It contains many figures and tables that help readers understand the material, and it clearly summarizes the presented concepts. Each chapter contains some special sections—for example,

“In Sharper Focus,” “Managerial Perspective,” “Applied Problem Solving,” and “Practical Advice & Information”—that give more details for interested readers. Each chapter ends with a summary of its contents, a list of key terms with cross references, and a rich list of references for more detailed study. A section in each chapter contains review questions and business cases useful for classroom discussion.

I warmly recommend *Local Area Networks: A Client/Server Approach* as a handbook for introductory courses about LANs and client-server architectures, especially business-oriented courses. In addition, novices will find it an excellent introduction and a good starting point for more detailed studies or practical activities. Advanced readers will find it a valuable source of information that can help systematize their knowledge.

Security in Distributed Computing: Did You Lock the Door?

reviewed by Sebastian Anita, Al. I. Cuza University, Romania

Security in Distributed Computing: Did You Lock the Door?

by Glen Bruce and Rob Dempsey

456 pp.

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Security, one of the biggest issues in computing today, is attracting a great deal of attention. *Security in Distributed Computing: Did You Lock the Door?* identifies and explains the key issues of this complex problem. The authors, Glen Bruce and Rob Dempsey, are consultants with the Hewlett-Packard Professional Services Organization, which specializes in helping clients solve security problems in distributed-computing and open systems.

Part I, “Understanding the Problem,” surveys computing security, presenting some security incidents and the factors that contribute to the security challenge.

Part II, “Foundations,” reviews the basics of computing security. Bruce and Dempsey introduce common concepts and the necessary terminology, and present an architecture, or model, for security in a distributed-computing environment. This architecture provides a reference point to compare the requirements and various security mecha-

nisms of a distributed system. The authors also discuss the creation of a computing security policy.

Part III, “Technologies,” provides an overview of the leading technologies in distributed computing and the solutions they offer to the security problem. Bruce and Dempsey survey network operating systems and the element of trust these systems bring to a distributed environment. They also explore the specific security issues and implications of client-server and middleware computing. Next, the authors examine the security aspects of Unix, Windows NT, and the Internet, and discuss cryptography, the Kerberos authentication model, and DCE (Distributed Computing Environment) security. In addition, they examine how Open Systems Foundation middleware helps solve some security issues in distributed computing, and they discuss security in transaction processing.

Part IV, “Solving the Problem,” outlines

how to design security and deploy it in infrastructure applications. The authors discuss security management and present a successful methodology for creating a security strategy. A general view of the future of computing security ends the book.

Security in Distributed Computing: Did You Lock the Door? illuminates both the

problems of computing security and their potential solutions. It presents detailed, up-to-date information and valuable recommendations on how to design and implement a security strategy. It is written very clearly, in an accessible style, and is sufficiently self-contained. This book is for anyone interested in computing security.

New Books

Associative Processing and Processors, Anargyros Krikelis and Charles C. Weems, 360 pp., \$50, IEEE Computer Society Press, Los Alamitos, Calif., 1997, ISBN 0-8186-7661-2.

Communication and Computing for Distributed Multimedia Systems, Guojun Lu, 394 pp., \$69, Artech House, Boston, 1997, ISBN 0-89006-884-4.

Computability and Complexity: From a Programming Perspective, Neil D. Jones, 466 pp., \$45, MIT Press, Cambridge, Mass., 1997, ISBN 0-262-10064-9.

Data Modeling and Design for Today's Architectures, Angelo R. Bobak, 394 pp., \$69, Artech House, Boston, 1997, ISBN 0-89006-877-1.

Distributed and Multi-Database Systems, Angelo R. Bobak, 476 pp., \$65, Artech House, Boston, 1996, ISBN 0-89006-614-0.

Future Codes: Essays in Advanced Computer Technology and the Law, Curtis E.A. Karnow, 276 pp., \$75, Artech House, Boston, 1997, ISBN 0-89006-942-5.

Heterogeneous Computing, Mary M. Eshaghian, ed., 375 pp., \$77, Artech House, Boston, 1996, ISBN 0-89006-552-7.

iWARP: Anatomy of a System, Thomas Gross and David R. O'Hallaron, 530 pp., \$45, MIT Press, Cambridge, Mass., 1997, ISBN 0-262-07183-5.

Open Distributed Systems, Jon Crowcroft, 386 pp., \$60, Artech House, Boston, 1996, ISBN 0-89006-839-9.

Real-Time Database Systems: Issues and Applications, Azer Bestavros, Kwei-Jay Lin, and Sang Hyuk Son, 384 pp., \$138.50, Kluwer Academic Publishers, Boston, 1997, ISBN 0-7923-9897-1.

Real-Time Systems: Design Principles for Distributed Embedded Applications, Hermann Kopetz, 352 pp., \$72.50, Kluwer Academic Publishers, Boston, 1997, ISBN 0-7923-9894-7.

Second-Generation Client-Server Computing, Dawna Travis Dewire, 421 pp., \$49.95, McGraw-Hill, New York, 1997, ISBN 0-07-016736-2.

Security in Distributed Computing: Did You Lock the Door?, Glen Bruce and Rob Dempsey, 456 pp., \$44, Prentice Hall PTR, Upper Saddle River, N.J., 1997, ISBN 0-13-182908-4.

Videoconferencing and Videotelephony: Technology and Standards, Richard Schaphorst, 199 pp., \$69, Artech House, Boston, 1996, ISBN 0-89006-844-5.