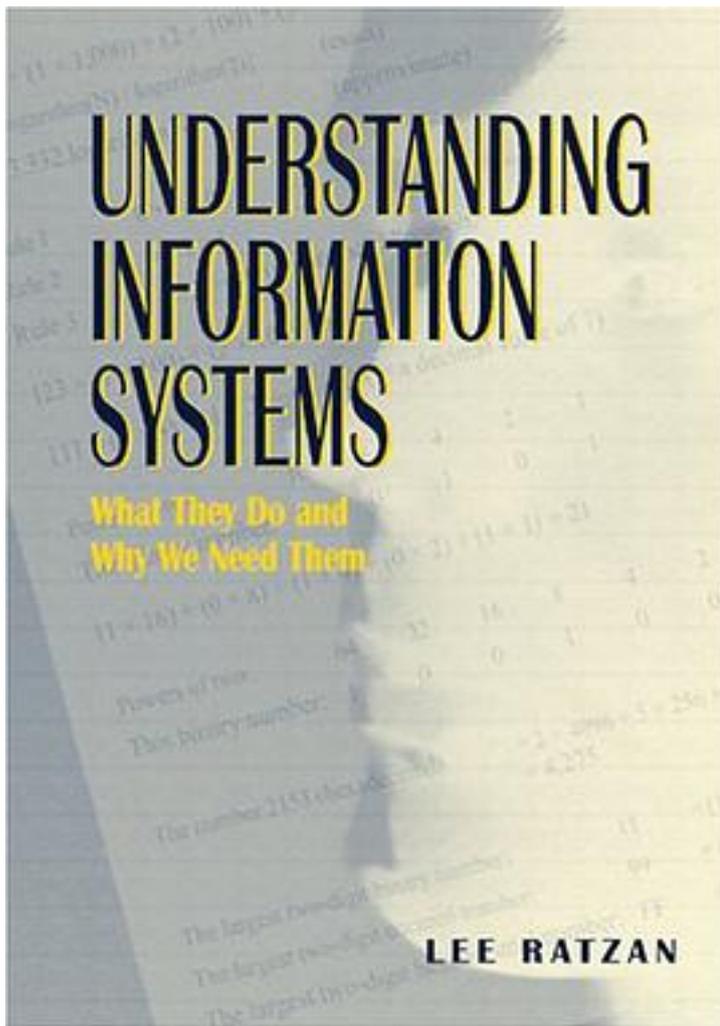


Understanding Information Systems



[Understanding Information Systems 下载链接1](#)

著者:Ratzan, Lee

出版者:Amer Library Assn

出版时间:2004-1

装帧:Pap

isbn:9780838908686

You can be a technophobe and still learn about systems and subsystems to represent,

organize, retrieve, network, secure, conceal, measure, and manage information. This basic introduction addresses both theoretical and practical issues, including: - What questions to ask technology vendors to meet your library's needs- When technology may not be the solution to a problem- Secrets for managing an information system- How to make your information system a success LIS instructors and students, IT staff, digital librarians, library generalists and managers will welcome this expert sourcebook complete with exercises, references, examples, terms, and charts that clarify concepts.

作者介绍:

About the Author

Lee Ratzan earned his Ph.D from the School of Communication, Information and Library Studies (SCILS) of Rutgers University. He is a system analyst at the University of Medicine and Dentistry of New Jersey and was formerly at the Princeton University Plasma Physics Laboratory and Memorial Sloan-Kettering Cancer Center. He has taught the Information Systems/Library Technology class for the MLS program at SCILS over many years and has presented over a hundred Internet related training sessions to librarians as part of the SCILS Professional Development program. He was a columnist for Byte Magazine, the Newark Star Ledger, the Wilson Library Bulletin ("The Internet Cafe") and has written articles for Information Research, The Unabashed Librarian, The Nation, The Humanist, Chance, Unix Review, Windows NT Systems and Linux Journal. His other activities include teaching Beginner Swimming for adults for the American Red Cross, writing computer mysteries and jogging with classical music. He has two wonderful children, Jill and Aaron.

目录: -----

Table of Contents

Figures

Tables

Acknowledgments

Introduction

Part 1: Describing Information

What Is an Information System?

What Is a System?

What Is Information?

Working Definitions of Information

Information Distortion

Exercises and Research Questions

Part 2: Representing Information

The Cumbersome Decimal System

The Simple Binary System

Converting Binary to Decimal and Back Again

The Hexadecimal System

Number Humor

How Did the Romans Deal with Fractions?

Prefix and Postfix Representation

Exercises and Research Questions

Part 3: Organizing Information

Fundamental Information Structures

Who Wants Short Sorts?

Exercises and Research Questions

Part 4: Retrieving Information
The Nature of Information Retrieval
Boolean and Beyond
Vector Methods (Simplified)
Fuzzy Information Retrieval
Inverted Files
Exercises and Research Questions
Part 5: Networking Information
Network Topologies
Bridges, Switches, Routers, and Gateways
Part 6: Securing Information
Physical, Data, Server, Backup, and Network Security
First Line of Defense: The Lowly Password
Viruses, Worms, Trojan Horses, Logic Bombs, and Other Nasties
A Dangerous Script
Misdirection
Exercises and Research Questions
Part 7: Concealing Information
Codes and Ciphers
Key Issues
The Unbreakable One-Time Pad
Symmetric (One-Key) Cryptography
Asymmetric (Two-Key) Cryptography
The Secret History of Public Key Cryptography
Other Cryptographic Systems
Steganography: Hiding Information in Plain Sight
Exercises and Research Questions
Part 8: Measuring Information
Bibliometrics: Measuring the Printed Word
Sabermetrics: Measuring Baseball Information
Web Metrics
Exercises and Research Questions
Part 9: Counting Information
Counting Tools
Counting Methods
Counting Things
Exercises and Research Questions
Part 10: Numbering Information
Prime Cuts
The Intriguing Nature of Pi
Pascal's Triangle
Exercises and Research Questions
Part 11: Managing Information
Characteristics of a Successful Information System
Building a Successful Information System
Why Things Go Wrong
Costs and Risks
Part 12: The Computer as an Information System
How Big Is an Exabyte?
Data Compression: Reducing Redundancy
Information Issues in the Background
Exercises and Research Questions
Part 13: The Internet as an Information System
Basics of Internet Protocol Addressing

Addressing Schemes
The Internet Metaphor Project
Is Internet Access a Privilege or a Right?
Other Internet Issues
Exercises and Research Questions
Part 14: Music as an Information System
The Nature of Music and Sound
Tuning Information Systems
How Many Tones Belong in a Scale?
Making Cents of It All
Melody Machines
Fundamentals of Music Information Retrieval
Exercises and Research Questions
Part 15: Interpreting Information: Numbers as Meanings
Gematria
The Numerology of 666
Exercises and Research Questions
Part 16: Counterintuitive Information
Not Quite Paradoxes
The Trouble with Infinity
Exercises and Research Questions
Appendices
Which Librarian Has the Server?
The Square Root of Two Is Irrational
Who's on First?
Answers to Selected Exercises
References
Index

• • • • • ([收起](#))

[Understanding Information Systems_ 下载链接1](#)

标签

评论

[Understanding Information Systems_ 下载链接1](#)

书评

[Understanding Information Systems 下载链接1](#)