Contents

Introduction ix

Chapter 1. Downsizing: What and why 1

What downsizing is 2
Why downsize 5
Candidates for downsizing 7
Making downsizing decisions 9
Money isn't the only thing 12
Downsizing as a financial decision 18
Paying for less 20

Chapter 2. Issues in downsizing 23

Downsizing for reliability 23
Networking and security 31
A protection strategy 35
The tradeoffs of downsizing 40

Chapter 3. The downsizing experience 43

Technical variety: Sara Lee's downsizing experience 43
Hyatt overcomes reservations 47
Insurance firm copes with success 49
Downsizing from PCs 52
Success has its price 54
Not up to the job 55
Not without a fight 55
A short breather 56
"It doesn't exist" 59
Special networking applications 60
A hospital networks its networks 60
Collaborating on research 61
Decentralizing space research 62

Chapter 4. Understanding PC networks 65

Network fundamentals 65
Many kinds of networks 68
The client/server model 70
What networks are made of? 74
Networking protocols 77
Network operating systems 80
Making network choices 83

Chapter 5. Networking networks 87

Linking the links 88
Network organization schemes 91
Managing network diversity 93
Meeting varied demands 96
Building bridges 97
Choosing the right route 98
Managing the gateway 100
Life on the WAN 102

Chapter 6. Choosing hardware platforms 105

Picking the best system 105
PCs in a mixed environment 108
Higher-horsepower servers 110
Enter the superserver 111
The RISC alternative 115
Using larger systems 117
Integrating PCs and mainframes 119

Chapter 7. Downsizing environments 123

The evolution of DOS 124
Then, there's Windows 127
Windows and the application developer 130
Windows and the mainframe 132
The delayed promise of OS/2 133
Unix: Getting wiser with age 135
Integrating the Macintosh 138

Chapter 8. The client/server model 141

The advantages 142
The changing user 144
Serving today's users 148
Issues to be addressed 152

Chapter 9. Downsizing databases 155

A history of SQL 156
Client/server computing 159
Front-end alignment 163
Client/server planning principles 16
The distributed database 167
Evaluating SQL 171

Chapter 10. Other downsizing applications 175

Downsizing applications 175
The shrink-wrapped world 179
The dBASE connection 180
Executive information systems 181
Electronic teamwork 183
Truly downsized applications 186
Developing applications 187

Chapter 11. Taking that fateful step 191

Pursuing the goal 191
Tactical v. strategic 193
The user as a customer 195
A systems approach to planning 198
Justifying the project 202
Pick a winner 204
Beyond a good start 206
A new role for MIS 207
From talk to action 207

Chapter 12. The human challenge of downsizing 21

Too few good people 213
Wrong skills 214
Resistance to change 217
Working with others 220
Office politics 220
The best responses 221
"Do what you do best" 225

Appendix Downsizing products 250

Bibliography 245

Index 263