Contents

Preface ix
About the Contributing Authors xix
Chapter 1 Freedom with Fences: Robert Stephens Discusses CIO Leadership and IT Innovation1
The die Education Pranadox
The Fences 5
Rules and Innovative Augmentation 13
The CIO and Enterprise Culture 16
Radical Transparency 20
Proactive Risk Practices 23
The CIO and the Customer 26
The IT Organization 34
Notes 39
Chapter 2 Why Does IT Behave the Way It Does?41
Making Sense of IT Business Management 41
Putting the Pieces Together 63
Changing the Way IT Behaves 86
Notes 97
Chapter 3 Cloud Computing and the New
Economics of Business99
A Combination of Technologies Create
Cloud Computing 100

Some Working Definitions of Cloud Computing 101
Cloud Computing Has Three Component Layers 102
Implications of the Transition to Cloud Computing 104
A Business Strategy Based on Agility 108
Using the Cloud for Business Advantage 111
Business Applications with the Greatest Potential 112
Cloud Risk Considerations 115
Cloud Cost Considerations 118
Case Study: Selling "Designer Chocolates" 120
Desirable Characteristics of New IT Architecture 123
Public Clouds, Private Clouds, and Hybrid Clouds 124
Issues to Consider When Thinking about Private Clouds 128
The Cloud is a Platform for Managing
Business Processes 131
Automate Routine Processes, Focus People on
Handling Exceptions 134
Four Technologies Enable Responsive
Business Processes 136
Notes 139
Chapter 4 Leading with Green: Expanding the CIO's
Role in Eco-Efficient Information
Technology Adoption141
What Is Green IT? 144
Who Cares about Green IT? 146
Green IT: A Quickly Maturing Management Discipline 147
Common Challenges Presented by Green 159
Role of Public Policy 165
Role of the CIO 167
Risks and Common Mistakes to Avoid 171
Summary 173
Notes 174

Chapter 5 Sustainability, Technology, and Economic Pragmatism: A View into the Future177
Sustainability 177
Globalization, Decentralization, and Sustainability 179
Future Opportunities for Improving Global IT Sustainability 187
Mobility 203
Ubiquity: Pervasive Computing, Ubiquitous Sensors, and Ad Hoc Communications 212
Energy: Smart Buildings, Renewables, and Campus Sustainability 215
Physical Security and Information Assurance 217
Integrating Sustainability into Strategic Planning 220
The Future Lies before Us 232
Notes 233
Chapter 6 How to Measure and Manage Customer Value and Customer Profitability237
The Rising Need to Focus on Customers 238
The Rising Need to Focus on Customers 238 A Foundation for customer Portfolio Management 245
A Foundation for customer Portfolio Management 245 Distinguishing High from Low Economic
A Foundation for customer Portfolio Management 245 Distinguishing High from Low Economic Customer Value 255
A Foundation for customer Portfolio Management 245 Distinguishing High from Low Economic Customer Value 255 Measuring Customer Lifetime Value 262
A Foundation for Customer Portfolio Management 245 Distinguishing High from Low Economic Customer Value 255 Measuring Customer Lifetime Value 262 Balancing Shareholder Value with Customer Value 269
A Foundation for Customer Portfolio Management 245 Distinguishing High from Low Economic Customer Value 255 Measuring Customer Lifetime Value 262 Balancing Shareholder Value with Customer Value 269 The CFO and CIO Must Shift Emphasis 275 Appendix 6A: Activity-Based Costing is a Cost
A Foundation for customer Portfolio Management 245 Distinguishing High from Low Economic Customer Value 255 Measuring Customer Lifetime Value 262 Balancing Shareholder Value with Customer Value 269 The CFO and CIO Must Shift Emphasis 275 Appendix 6A: Activity-Based Costing is a Cost Reassignment Network 280

Advances in Computational and Data Networks 289 Advances in Storage and Data Networks 291 Business Impacts of Business Networking 295 Business Impacts of Social Networking 299 Virtual Worlds: Second Life 302 Democratization and Socialization of Information 306 The Wisdom of Crowds? 309 The New Reality 311 Adapting to the New Reality 315 Adapting to the New Reality 315
Role of IS/IT in Adapting to the New Reality 317
Notes 320
About the Editor 327
Index 329