Contents

Preface xiii
Acknowledgments xvii
Introduction xix

Part 1 Introduction

Chapter 1. Why Project Management? 3

The Evolution 6
Other Examples 9
Leading Professional Societies 10
Impact on History 13
Early Literature 18
Organizational Liaison Devices 19
The Change Factor 37
A Special Case of Management 38
A Philosophy 38
Breaking Down Hierarchies 39
To Summarize 41
Discussion Questions 43
User Checklist 43

Chapter 2. The Project Management Process 45

The Management Process 45
The Project Management Process 48
The Project Life Cycle 49
Product Development 53
Managing the Life Cycle 54
Project Life Cycles and Uncertainty 56
To Summarize 57
Discussion Questions 59
User Checklist 60

Part 2 The Strategic Context of Projects

Chapter 3. When to Use Project Management 63

Business Process Changes 63
Specific Uses 65
Projects and Strategic Planning 69
When Is a Project Needed? 71
The Impact of Teams 82
To Summarize 86
Discussion Questions 88
User Checklist 89

Chapter 4. The Strategic Context of Projects 91

Implications of Technology 92
A Stream of Projects 95
Strategic Relationship of Projects 97
Determining Strategic Fit 98
The Vision 100
A Project Selection Framework 100
Projects and Organizational Management 103
Project Planning 105
Flexibility 106
The Project Owner's Participation 107
Project Management System 112
To Summarize 115
Discussion Questions 116
User Checklist 117

Chapter 5. The Board of Directors and Capital Projects 119

Surveillance 120
Some Board Inadequacies 122
Exemplary Board Behavior 128
The Board's Responsibilities 130
The New Governance 132
Empowerment of the Board 132
The Role of Projects 134
The Organizational Design 136
Project Reviews 137
Information for the Board 139
The Performance Audit 141
Cultural Considerations 142
Selection of Directors 143
To Summarize 144
Discussion Questions 145
User Checklist 146

Chapter 6. Project Stakeholder Management 149

Organizational Stakeholders 151
Project Stakeholders 154
Examples of Stakeholder Influence 158
Additional Examples of Successful Stakeholder Management 160
Project Stakeholder Management (PSM) Process 162
Planning Stakeholder Management 163
A Model of the PSM Process 163
To Summarize 176
Discussion Questions 178
User Checklist 178

Chapter 7. Strategic Issues in Project Management 181

Some Examples 182
An Application of the Concept of Strategic Issues: Nuclear Construction Industry 187
Managing Project Strategic Issues 193
Project Failure and Success 200
To Summarize 203
Discussion Questions 204
User Checklist 205

Part 3 Organizational Design for Project Management

Chapter 8. Organizing for Project Management 209

Organizational Deficiencies 210
The Project Organization 214
Various Forms of the Project Organization 215
The Project-Functional Interface 224
A Controversial Design 226
No One Best Organizational Design 228
Global Project Organizations 230
Project-Customer Relationships 230
Organizational Networking 231
To Summarize 233
Discussion Questions 235
User Checklist 236

Chapter 9. Project Organization Charting 237

The Traditional Organizational Chart 237
Linear Responsibility Charts 239
A Project Management LRC 243
Developing the LRC 244
To Summarize 246

Discussion Questions 247
User Checklist 247

Chapter 10. Project Authority 249

Defining Authority 251
Power 253
Matrix Implications 254
What Is Responsibility? 261
What Is Accountability? 262
To Summarize 262
Discussion Questions 264
User Checklist 265

Part 4 Project Operations

Chapter 11. Project Planning 269

Planning Realities 271
A Conceptual Model of Planning 271
Project Planning Model 281
Project Planning Process 281
Project Planning Considerations 284
Work Breakdown Structure 286
Project Schedules 289
Scheduling Techniques 290
Network Techniques 291
Project Life-Cycle Planning 291
Project Planning Elements 291
To Summarize 297
Discussion Questions 299
User Checklist 300

Chapter 12. Project Management Information System 303

Informal Information 304
Information Failures 305
Describing a PMIS 306
Sharing Information 307
Information Value 308
Problems with a PMIS 312
PMIS Software 313
Organizational Experiences 314
Planning for the PMIS 317
Principles of PMIS 318
To Summarize 320
Discussion Questions 321
User Checklist 322

Chapter 13. Project Monitoring, Evaluation, and Control 325

Steps in the Control Cycle 326
Management Functions Evaluation 332
When to Monitor and Evaluate 334
Planning for Monitoring and Evaluation 335
Who Monitors and Evaluates? 336
Project Audits 336
Postproject Reviews 338
Configuration Management and Control 340
To Summarize 342
Discussion Questions 344
User Checklist 345

Chapter 14. Project Termination 347

Why Terminate? 348
Types of Project Termination 349
Strategic Implications 350
Continuing the "Losers" 352
Projects in Trouble 355
Termination Strategies 356
Evaluation of Termination Possibilities 357
Termination Procedures 358
Posttermination Activities 358
To Summarize 360
Discussion Questions 361
User Checklist 362

Part 5 Interpersonal Dynamics in the Management of Projects

Chapter 15. Project Leadership 367

What Is Leadership? 367
Studies of Leadership 369
Leadership Style 371
Project Leadership 375
Leadership Competencies 381
To Summarize 387
Discussion Questions 389
User Checklist 390

Chapter 16. Project Communications 391

Communication Problems 392
The Process of Communication 395
Informal Communication 398

Listening 399
Nonverbal Communication 403
Written Communications 405
Project Meetings 407
The Role of Technology 411
Communication Links 413
To Summarize 415
Discussion Questions 417
User Checklist 417

Chapter 17. Working with Project Teams 419

Teamwork in Today's Dynamic Project Environment 420
Characteristics of High-Performing Project Teams 424
A Simple Model 427
Measuring Project Team Performance 428
Organizing the New Project Team 432
Facilitating Team Integration 436
Building Self-Directed Teams 436
A Final Note 438
Discussion Questions 438
User Checklist 439
References 440

Part 6 The Cultural Elements

Chapter 18. Continuous Improvement through Projects 445

Survival through Change 446
Management Innovation Again 450
Continuous Improvement in Productivity 452
Product Quality through Projects 454
Trendsetters 455
Product Integrity 457
Continuous Improvement in Manufacturing 457
Manufacturing Philosophies 459
Continuous Improvements: The Connections 463
To Summarize 468
Discussion Questions 469
User Checklis 470

Chapter 19. Cultural Considerations in Project Management 473

The Nature of an Organizational Culture 474
Examples of Corporate Culture 477
Cultural Features 480
The Project Culture 481
Why Change? 484
The Constancy of Change 485

Project Management Actions 487
Project Strategies 487
The Trust Factor 490
Culture and Project Extensions 491
Influencing the Team's Culture 492
The Culture of Successful Teams 492
Conflict 494
To Summarize 497
Discussion Questions 499
User Checklist 499

Part 7 New Prospects

Chapter 20. Alternative Project Teams 503

Traditional and Nontraditional Project Teams 504
The Types of Alternative Teams 506
Alternative Teams: More about Their Rules 508
The Personal Impact of Teams 523
Role Change 524
To Summarize 526
Discussion Questions 527
User Checklist 528

Chapter 21. The Future of Project Management 531

Past Influences 531
Some General Future Trends 533
What Does It Mean? 536
The Future of Project Management 537
Management Philosophy Modifications 540
PMI Growth 542
Increase in Megaprojects 543
Other Project Management Changes 544
Additional Changes 544
A Turning Point 545
To Summarize 547
Discussion Questions 548
User Checklist 549

Index 551