

# — Contents

<b>Preface</b>	<b>xiii</b>
<b>The Author</b>	<b>xxi</b>
<b>1 The New Business Environment and the Need for a New Project Management</b>	<b>1</b>
<i>The New Business Environment • The Problem with the Traditional Approach to Project Management • The New Project Management • Traits of the New Project Manager • The Increased Value of Project Managers • Beyond the Project Manager • Conclusions</i>	
<b>Part One: Managing in the New Business Environment</b>	<b>19</b>
<b>2 Managing Complexity: Techniques for Fashioning Order out of Chaos</b>	<b>21</b>
<i>Chaos and Complexity • Facets of Complexity • Experience with Project Complexity • How to Manage Complexity • Conclusions</i>	
<b>3 Engaging Change: Knowing When to Embrace, Accept, or Challenge</b>	<b>44</b>
<i>Sources of Change • Change Management Strategies • Going with the Flow of Rapid Prototyping • Resisting Change with Configuration Management • Basic Steps in Developing a System with Configuration Management • Change Control • Conclusions</i>	
<b>4 Managing Risk: Identifying, Analyzing, and Planning Responses</b>	<b>72</b>
<i>Perspectives on Risk • Risk and Variability • Range of Risks • Sources of Risk on Projects • Risk-Reward Trade-Offs • Risk and Time Horizons • Risk Exposure • Project Risk Management • The Need for Documentation • Modeling • Conclusions</i>	

- 5 Satisfying Customers: Knowing Who They Are, What They Want, and When They Are Right or Wrong** 93  
*Who Are Our Customers? • Meeting Customer Expectations • Understanding Customers' Needs and Requirements • Traits of Effective Needs Analysts • Steps for Improving Needs Definition • Customers' Responsibilities in Defining Their Needs • Organizing to Achieve Customer Satisfaction • What to Do When Customers Don't Cooperate • Conclusions*
- 6 Defining Requirements That Bridge the Customer-Developer Gap** 118  
*The Place of Needs and Requirements in the Project Management Process • Capturing Requirements • Key Players in the Requirements Definition and Management Process • The Communication Challenge: I Can't Read Your Mind • The Standard Communication Model • Tips for Handling Requirements • Bringing It Together with Joint Application Development • Conclusions*
- Part Two: Tools for the New Project Management** 143
- 7 Acquiring Political Skills and Building Influence** 147  
*What Is Politics? • Politics in Projects • Players to Contend with in the Project Environment • Being a Better Politician • A Guide to Action • Building Authority • Using Authority Effectively • Managing Our Managers • Conclusions*
- 8 Building Teams with Borrowed Resources** 173  
*Making the Team as Tangible as Possible • Rewarding Good Behavior • Developing a Personal Touch • Self-Managed Teams: Prospects and Pitfalls • Structuring the Team • Conclusions*
- 9 Selecting Projects That Will Lead to Success** 190  
*The Essence of Choice • Benefit-Cost Ratios • Buss's Technique for Ranking Projects • Poor Man's Hierarchy • The Murder Board • Peer Review • General Rules for Selecting Projects • Conclusions*

- 10 Estimating Realistic Costs, Schedules, and Specifications to Ensure Project Success** 207  
*Causes of Poor Estimation • Traditional Approaches to Cost Estimating • Bottom-Up Versus Top-Down Estimates • Life Cycle Cost Estimating • Strategies for Dealing with Poor Estimates • Conclusions*
- 11 Scheduling Projects with New Tools: The Time-Boxed and Critical Chain Scheduling Techniques** 229  
*Time-Boxed Scheduling • Prioritizing • Bringing Pertinent Players Together • Prioritization Dimensions • Techniques for Prioritization • The Use of Parallel Development • Scheduling Realities • The Need for Discipline • Critical Chain Scheduling • The Critical Chain and the Theory of Constraints • The Critical Chain Perspective and the Psychology of Estimating Task Durations • Using Buffers to Accelerate Project Delivery • Project Buffers, Feeder Buffers, and Resource Buffers • Conclusions*
- 12 Outsourcing to Control Costs, Focus on Core Work, and Expand Resources** 252  
*Forms of Outsourcing • The Motivation Challenge • Outsourcing in Project Management • Contracting • Contracting: Preaward • Contracting: Postaward • Customer Acceptance and the Handover • Conclusions*
- 13 Integrating Cost and Schedule Control to Measure Work Performance** 274  
*A Graphical Approach to Integrated Cost and Schedule Control • The 50-50 Rule for Measuring Work Performance • Other Ways to Calculate Earned Value • A New Look at Cost and Schedule Variance • A New Vocabulary • Case Study: The Bora Bora Officers' Club • Collecting Data • Trend Analysis Using the Earned Value Approach • When Is the Earned Value Approach Appropriate? • A Historical Note • Conclusions*
- 14 Evaluating Projects to Maintain Goals, Strengthen Accountability, and Achieve Objectives** 292  
*What Is Evaluation? • Evaluations and the Project Life Cycle • Problems with Evaluation • The Structured Walk-Through • Conclusions*

<b>15 Understanding and Using Performance Metrics:</b>	
<b>Measuring the Right Stuff</b>	<b>306</b>
<i>The Role of Measurement in Managing Projects</i>	
• <i>The Nature of Measurement</i> • <i>Generating Measures</i>	
• <i>The Shadow Side of Measures</i> • <i>Conclusions</i>	
<b>16 Establishing and Maintaining a Project Support Office to Strengthen Project Management Capabilities</b>	<b>327</b>
<i>Traditional Program and Project Offices</i> • <i>What Project Support Offices Do</i> • <i>Where Should the Project Support Office Reside?</i> • <i>Staffing the Project Support Office</i>	
• <i>Selling the Project Support Office</i> • <i>Conclusions</i>	
<b>17 Carpe Diem: Seize the Day!</b>	<b>344</b>
<b>References</b>	<b>347</b>
<b>Index</b>	<b>351</b>