CONTENTS

Introduction vii

SECTION ONE: PREPARING  1

1 New Products—What Separates the Winners from the Losers and What Drives Success  3
Robert G. Cooper

2 An Innovation Management Framework: A Model for Managers Who Want to Grow Their Businesses  35
Paul Mugge and Stephen K. Markham

3 Service Development  51
Thomas D. Kuczmarski and Rishu Mandolia

4 Business Model Innovation: Innovation Outside the Core  68
Heidi M.J. Bertels and Peter A. Koen

5 Open Innovation and Successful Venturing  82
Rob van Leen and Marcel Lubben
6 Success Factors of New Product Development for Emerging Markets 100
Anna Dubiel and Holger Ernst

SECTION TWO: STARTING 115

7 Effective Practices in the Front End of Innovation 117
Peter A. Koen, Heidi M.J. Bertels, and Elko Kleinschmidt

8 Getting Lightning to Strike: Ideation and Concept Creation 135
Christopher W. Miller

9 Portfolio Management for Product Innovation 154
Scott J. Edgett

10 Identifying Significant New Business Opportunities: The Magellan Process 167
Deborah A. Mills and Paige Siempelkamp

11 We-ness, Knowledge Sharing, and Performance in New Product Development Teams 181
Hyunjung Lee and Stephen K. Markham

12 Virtual Teams in New Product Development: Characteristics and Challenges 195
Nicholas S. Lockwood, Mitzi M. Montoya, and Anne P. Massey

SECTION THREE: PROGRESSING 211

13 Obtaining Customer Needs for Product Development 213
Abbie Griffin

14 User Research for Product Innovation: Qualitative Methods 231
Gary R. Schirr

15 Market Analytics 244
Brian D. Ottum

16 Forecasting New Products 265
Kenneth B. Kahn
17 Social Media and New Product Development  282
Amy Kenly

SECTION FOUR: ACHIEVING  295

18 Developing Intelligent Products  297
Serge A. Rijsdijk and Erik Jan Hultink

19 Strategies to Improve NPD Governance  310
Steven Haines

20 Managing the Supply Chain Implications of Launch  325
Roger J. Calantone and C. Anthony Di Benedetto

21 Post-Launch Product Management  339
Steven Haines

22 Managing Innovation Paradoxes for Organizational Ambidexterity  356
Marianne W. Lewis and Constantine Andriopoulos

23 Understanding the Most Common Types of Intellectual Property Rights and Applying Them to the Product Development Process  368
Rel S. Ambrozy

SECTION FIVE: PDMA RESEARCH  385

24 Lessons Learned from Outstanding Corporate Innovators  387
Sally Evans Kay, Douglas Boike, Wayne Fisher, Thomas Hustad, Stan Jankowski, Deborah A. Mills, Barry J. Novotny, Albert Page, and William M. Riggs

25 The Difference between Goods and Services Development: A PDMA CPAS Research Study  405
Stephen K. Markham and Thomas Hollmann

26 The Emergence of the Product Innovation Discipline and Implications for Further Research  416
C. Anthony Di Benedetto
Appendix: About the Product Development and Management Association (PDMA)  427

New Product Development Glossary  435

Author Index  477

Subject Index  481