PRODUCT MANAGEMENT



DONALD R. LEHMANN RUSSELL S. WINER

PRODUCT MANAGEMENT

Donald R. Lehmann

Graduate School of Business Columbia University

Russell S. Winer

Haas School of Business University of California, Berkeley

IRWIN

Chicago · Bogotá · Boston · Buenos Aires · Caracas London · Madrid · Mexico City · Sydney · Toronto To those who helped shape our thinking and especially those like Kris who helped on the book.

© Richard D. Irwin, A Times Mirror Higher Education Group, Inc. company, 1994 and 1997

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the publisher.

Irwin Book Team

Publisher: Rob Zwettler

Senior sponsoring editor: Stephen M. Patterson

Editorial assistant: Andrea Hlavacek Marketing manager: Colleen Suljic Senior project supervisor: Mary Conzachi Senior production supervisor: Laurie Sander

Designer: Matthew Baldwin

Assistant manager, desktop services: Jon Christopher

Compositor: Carlisle Communications, Ltd.

Typeface: 10/12 Times Roman

Printer: R. R. Donnelley & Sons Company

Times Mirror Higher Education Group

Library of Congress Cataloging-in-Publication Data

Lehmann, Donald R.

Product management / Donald R. Lehmann, Russell S. Winer.

p. cm.—(The Irwin series in marketing)

Includes indexes.

ISBN 0-256-21439-5

1. Product management. I. Winer, Russell S. II. Title.

III. Series.

HF5415. 15.L44 1997.

658.5'6-dc20

96-28869

PRODUCT MANAGEMENT

THE IRWIN SERIES IN MARKETING

Alreck & Settle

The Survey Research Handbook

Second Edition

Arens

Contemporary Advertising

Sixth Edition

Bearden, Ingram & LaForge

Marketing: Principles & Perspectives

First Edition

Belch & Belch

Introduction to Advertising and Promotion: An Integrated Marketing

Communications Approach

Third Edition

Bernhardt & Kinnear

Cases in Marketing Management

Seventh Edition

Berkowitz, Kerin, Hartley & Rudelius

Marketing

Fifth Edition

Boyd, Walker & Larréché

Marketing Management: A Strategic Approach with a Global Orientation

Second Edition

Cateora

International Marketing

Ninth Edition

Churchill, Ford & Walker

Sales Force Management

Fifth Edition

Cole & Mishler

Consumer and Business Credit

Management

Tenth Edition

Cravens

Strategic Marketing

Fifth Edition

Cravens

Strategic Marketing Management

Cases

Fifth Edition

Crawford

New Products Management

Fifth Edition

Dillon, Madden & Firtle

Essentials of Marketing Research

Second Edition

Dillon, Madden & Firtle

Marketing Research in a Marketing

Environment

Third Edition

Faria, Nulsen & Roussos

Compete

Fourth Edition

Futrel

ABC's of Relationship Selling

Fifth Edition

Futrell

Fundamentals of Selling

Fifth Edition

Gretz, Drozdeck & Weisenhutter

Professional Selling: A Consultative Approach

First Edition

Hawkins, Best & Coney Consumer Behavior

Sixth Edition

Hayes, Jenster & Aaby

Business to Business Marketing

First Edition

Johansson

Global Marketing

First Edition

Lambert & Stock

Strategic Logistics Management

Third Edition

Lehmann & Winer

Analysis for Marketing Planning

Fourth Edition

Lehmann & Winer

Product Management

Second Edition

Levy & Weitz

Retailing Management

Second Edition

Levy & Weitz

Essentials of Retailing

First Edition

Mason, Mayer & Ezell

Retailing

Fifth Edition

Mason & Pereault

The Marketing Game!

Second Edition

Meloan & Graham

International and Global Marketing

Concepts and

Cases

First Edition

Patton

Sales Force: A Sales Management

Simulation Game

First Edition

Pelton, Strutton & Lumpkin

Marketing Channels: A Relationship

Management Approach

First Edition

Perreault & McCarthy

Basic Marketing: A Global

Managerial Approach

Twelfth Edition

Perreault & McCarthy
Essentials of Marketing: A Global

Managerial Approach

Seventh Edition

Peter & Donnelly
A Preface to Marketing Management

Seventh Edition

Peter & Donnelly

Marketing Management: Knowledge

and Skills
Fourth Edition

Fourth Edition

Peter & Olson

Consumer Behavior and Marketing

Strategy

Fourth Edition

Peter & Olson

Understanding Consumer Behavior

First Edition

Quelch

Cases in Product Management

First Edition

Quelch, Dolan & Kosnik

Marketing Management: Text &

Cases

First Edition

Quelch & Farris

Cases in Advertising and Promotion

Management

Fourth Edition

Quelch, Kashani & Vandermerwe

European Cases in Marketing

Management

First Edition

Rangan **Business Marketing Strategy: Cases.**

Concepts & Applications

First Edition

Rangan, Shapiro & Moriarty

Business Marketing Strategy:

Concepts & Applications
First Edition

Smith & Quelch

Ethics in Marketing

First Edition

Stanton, Buskirk & Spiro

Management of a Sales Force

Ninth Edition

Thompson & Stappenbeck

The Marketing Strategy Game

First Edition

Walker, Boyd & Larréché Marketing Strategy: Planning and

Implementation

Second Edition

Weitz, Castleberry & Tanner Selling: Building Partnerships

Second Edition

The focus of this book is on those individuals who have the primary responsibility for the market success of the company's products and services. In many companies, particularly packaged goods companies, this person has the title *product manager*. Although, as we note in Chapter 1, the title is not always the same, there are always individuals in the company who must be the "expert" for the product, someone to whom senior managers can assign responsibility for the execution of marketing plans and someone who advances or fails as a result of the product's performance.

The product manager's job is becoming increasingly complex. Due to, among other things, changes in information technology, increasing global competition, changing customer needs and wants, the job of the product manager involves continually collecting and synthesizing information, forecasting changes in competition and market conditions, revising market strategies, and adapting decisions such as price and communications to rapidly changing market conditions. This is true even for so-called mature product categories.

In the second edition of *Product Management*, we have attempted to cover the three major tasks facing product managers:

- 1. Analyzing the market.
- 2. Developing objectives and strategies for the product or service in question.
- Making decisions about price, advertising, promotion, channels of distribution, and service.

We use as a unifying framework the development of the marketing plan, a process that integrates the three tasks and provides a written record of the brand's history, prospects, and hopes.

Why We Wrote the Book

Many fine textbooks deal with marketing management and strategy issues. These books either are general introductions to marketing management or focus more exclusively on strategic issues. One way to look at the existing set of textbooks is to relate them to job responsibilities. The general marketing management texts are excellent devices for introducing marketing concepts to all employees in an organization. The strategy books are more advanced and fit well with the jobs of senior marketing managers such as group product managers, VPs of marketing, and the like. These people usually manage "portfolios" of products and, sometimes, many product managers.

We have found that most existing textbooks do not really cover the middle ground. This middle ground consists of marketing managers who have day-to-day responsibilities for managing either a single product or service or a closely related product line. These managers know what the marketing concept is and understand the general pros and cons of basic strategy decisions (e.g., which segment should I pursue?). What they need to know is how to write product marketing plans, how to select specific marketing strategies, and how to implement those strategies by making decisions regarding so-called marketing mix instruments. That is the focus of this book.

A second reason for writing this book is our belief that much of the research marketing academics have produced has great relevance for practicing managers but is generally inaccessible to them. In this book, we attempt to bridge this gap. Particularly in the chapters on marketing decision making, we have attempted to integrate findings from academic research in the marketing management, consumer behavior, and marketing science literature.

The differences, then, between *Product Management* and other marketing text-books are (1) its hands-on approach, (2) the focus on decision making, and (3) the attempt to simulate what the product manager's job is actually like.

As a result, we do not aim to be comprehensive, but rather focus on the key tasks facing product managers. For example, there is no chapter on sales force management because typically the product manager has little influence on sales force size, compensation, territory design, reward systems, and so on. We also omit a very important part of any managerial position: interpersonal skills. Clearly, a large part of a product manager's success is usually related to an overall ability to get things done in a complex and often political organizational setting. We leave discussions of these issues to the appropriate experts.

What Is New in the Second Edition

While we are gratified with the reception given the first edition, we also received many suggestions from colleagues and reviewers about things to change. The most important changes are as follows:

 We have included a chapter on the role of product management in new-product development (Chapter 9). Preface vii

• We have reorganized the book somewhat. The material from old Chapter 12, "Brand Value Maintenance and Product Modification," has been included either in the new Chapter 9 or in Chapter 8, "Developing Product Strategy."

- One of the features readers liked best about the first edition, the running examples (formerly bottled water and computer workstations), have been updated. The two new examples are ready-to-drink fruit drinks (e.g., Snapple) and personal digital assistants (PDAs).
- Many references are made to Internet-based marketing and marketing on the World Wide Web.

The basic outline of the book is the same, so past users and readers will be comfortable with the new edition.

The Structure of the Book

As noted previously, the book covers three major areas of product manager responsibilities. The structure of the book uses the operating product marketing plan as a unifying theme. The marketing plan guide, given in the appendix to Chapter 2, is also an outline for the book:

- Part 1 (Chapters 2 through 7) describes the marketing planning process and the background analyses necessary for constructing a successful marketing plan. Rather than taking a checklist or fill-in-the-blank approach as do many books on marketing planning, we attempt to keep the process as simple as possible while giving a sound rationale for answering the necessary major questions.
- Part 2 (Chapters 8 and 9) describes how to set sound product objectives and develop a product strategy as a result of the market analysis conducted in Part 1. Chapter 9 presents this material in the context of new products.
- Part 3 (Chapters 10 through 14) covers the marketing mix with an emphasis on decisions. While Managing Service Quality (Chapter 14) is not a classic marketing mix topic, it has become critical for product managers in the 1990s.
- Part 4 (Chapters 15 and 16) covers important ancillary topics, such as financial
 analysis, and expected future trends in product management, including the
 strategic use of information technology and advertising and channels issues in
 the context of the Internet.

Intended Audience for this Book

This book can be used at both the undergraduate and graduate levels. At the undergraduate level, the book can be used in a capstone course for seniors who have had several other marketing courses. At the MBA level, the book works best in a course positioned between the core marketing course and an advanced marketing strategy course. Those three courses make a very nice three-course sequence for marketing majors or those with a serious interest in marketing and exist (not surprisingly) at both Berkeley and Columbia.

We also planned for the book to have a practitioner audience. As we have noted, *Product Management* is meant to be a practical, "hands-on" book based on actual product manager experiences across a wide variety of product categories. As a result, the book is not purely academic but attempts to integrate practical results from academic research that are not otherwise easily available to practicing managers. A product manager could read this book and immediately apply the concepts to his or her situation. Positive feedback from participants in executive education courses and other practicing managers support this contention.

In some ways, *Brand Management* would be a clearer title for the book. However, we chose to title the book *Product Management* to connote the applicability of the concepts to high-tech, low-tech, and no-tech manufacturing, and service situations. Our examples are purposefully diverse and, we hope, make the book equally useful to a toothpaste brand manager, a computer software product manager, and a product manager in the financial services sector.

We always appreciate feedback. In this electronic age, maintaining communications with customers is easier than ever. We invite you to send us e-mail with comments, suggestions, and questions.

Donald R. Lehmann dlehmann@research.gsb.columbia.edu Russell S. Winer winer@haas.berkeley.edu http://www.haas.berkeley.edu/~market/

C O N T E N T S I N B R I E F

- 1 Introduction to Product Management 1
- 2 Marketing Planning 24
- 3 Defining the Competitive Set 49
- 4 Category Attractiveness Analysis 73
- 5 Competitor Analysis 99
- 6 Customer Analysis 138
- 7 Market Potential and Forecasting 178
- 8 Developing Product Strategy 211
- 9 New Products 243
- 10 Pricing Decisions 276
- 11 Advertising Decisions 309
- 12 Promotion Decisions 343
- 13 Channel Management, Customer Contact, and the Product Manager 372
- 14 Managing Service Quality 397
- 15 Financial Analysis for Product Management 422
- 16 Product Management: Back to the Future 445

Name Index I-1 Subject Index I-5

1 Introduction to Product Management 1

Overview 1

Marketing Organization 3

Product-Focused Organizations 4

Market-Focused Organizations 7

Functionally Focused Organizations 9

The Role of the Sales Force 11

Marketing Organization Implications of Global Marketing 11

Product Management: Fact versus Fiction 12

Changes Affecting Product Management 15

Impact of Change on Organizational Structure: Category Management 17

Summary 20

Marketing Planning 20

Marketing Strategy 21

Marketing Program Decisions 21

Appendix 1.1 Sample Responses from Product Managers 22

2 Marketing Planning 24

Overview 24

Definition and Objectives of Plans 24

Frequent Mistakes in the Planning Process 27

What Makes a Good Planning System: Some Empirical Results 30

Is Planning Worthwhile? 31

The Planning Process 31

Approaches to Planning 31

Steps in the Planning Process 32

Components of the Marketing Plan 34

The Executive Summary 35

xi

Background Assessment 35
The Marketing Strategy 36
The Rest of the Plan 36
Example 37
Two Case Studies 37
Ready-to-Drink Fruit Drinks (ca. 1995) 37
Personal Digital Assistants (ca. 1995) 42
Summary 44
Appendix: Marketing Plan Outline 45

3 Defining the Comparative Set 49

Overview 49
Levels of Market Competition 52
Definitions 52
Product Strategy Implications 56
Illustrations 58
Overlapping Market Segments 60
Methods for Determining Competitors 60
Managerial Judgment 61
Customer-Based Measures 62
Summary 68
Competitor Selection 69
Enterprise Competition 71
Summary 72

4 Category Attractiveness Analysis 73

Overview 73 Aggregate Market Factors 74 Category Size 74 Market Growth 75 Product Life Cycle 75 Sales Cyclicality 77 Seasonality 77 Profits 77 Category Factors 78 Threat of New Entrants 78 Bargaining Power of Buyers 80 Bargaining Power of Suppliers 81 Current Category Rivalry Pressure from Substitutes 83 Category Capacity 83 Environmental Analysis 84 Technological Factors 84 Political Factors 86

Contents

Economic Factors 87
Regulatory Factors 88
Social Factors 88
Summary 95
Illustrations 96
RTD Fruit Drinks 96
Personal Digital Assistants 97

5 Competitor Analysis 99

Overview 99 Sources of Information Secondary Sources of Information Primary Sources of Information Other Sources 110 Some Sources with Ethical Considerations Assessing Competitors' Current Objectives Determination of Competitor Objectives Assessing Competitors' Current Strategies Marketing Strategy 115 How to Assess Competitor's Strategies Technology Strategy 120 Differential Advantage Analysis 120 What to Do with the Information Assessing a Competitor's Will 123 Predicting Future Strategies 125 Illustrations 129 RTD Fruit Drinks 129 Personal Digital Assistants 131 Summary 137

6 Customer Analysis 138

Overview 138
Who Buys the Product? 139
Product Definition 139
Buyers versus Users 139
Descriptor Variables 140
Analysis for Market Segmentation 145
What Do Customers Buy? 160
Benefits 160
Product Assortment 161
Product Uses 161
How Do Customers Choose? 161
The Multiattribute Model 161
Customers as Problem Solvers 166

Why They Prefer a Product: Customer Value 167
Sources of Customer Value 168
Manifestations of Customer Value 169
Assessing the Value of the Product Category 169
Where Customers Buy 170
When Customers Buy 171
Illustrations 171
RDT Fruit Drinks 171
Personal Digital Assistants 175
Summary 177

7 Market Potential and Forecasting 178

Overview 178 Definitions 178 Market Potential 179 Overview 179 Estimating Market and Sales Potential: Basics 180 Assessing the Value of a New or Growing Product 182 Mature Product Potentials 182 Methods of Estimating Market and Sales Potential 183 Analysis-Based Estimates 183 Area Potential 186 Sales Potential 187 Forecasting: Basics 187 Overview 187 Sales Forecasting Methods 190 What Methods Are Used? 198 Using Regression Models for Forecasting 198 Developing Regression Forecasting Models 200 RTD Fruit Drink Illustration 205 Nonlinear Relations 205 Forecasting Innovations 206 PDA Illustration 207 Presentation of Forecasts 208 Forecasting Methods 208 Combining Forecasts 209 Gaining Agreement 210 Summary 210

8 Developing Product Strategy 211

Overview 211
Function of a Strategy 211
Elements of a Product Strategy 213
Setting Objectives 214

Contents

XV

Selection of Strategic Alternatives 216 Increasing Sales/Market Share 218 Increasing Profitability 219 Summary 220 Positioning: Choice of Customer Targets 220 Positioning: Choice of Competitor Targets 221 Positioning: The Core Strategy 221 Cost/Price Strategy 222 Nonprice Strategy 224 Product Strategy over the Life Cycle 228 Strategies for the Introduction Phase 228 Strategies for the Growth Phase 229 Strategies for Maturity 231 Strategies for the Decline Stage 232 Summary 232 Managing Brand Equity 232 Measuring Brand Value 238 Illustrations 239 RTD Fruit Drinks: Snapple 239 Personal Digital Assistants: The Sharp Wiz 241 Summary 242

9 New Products 243

Overview 243 Getting Ideas for Slightly New Products 244 Product Modification 245 Product Variants 247 Adding a Product Variant 248 Dropping a Product Variant 249 Formal Testing of Slightly New Products Concept Testing 250 Product Use Tests 251 Discrimination and Preference Testing 252 Market Tests 255 Sales Forecasting 256 Beyond Category Brand Extension 261 Really New Products 263 Getting Ideas for Really New Products Evaluating Really New Products Adoption and Expansion 268 Forecasting Really New Products 269 Summary 269 Summary 271 Appendix: Sample Concept Test Formats 272

10 Pricing Decisions 276

Overview 276

The Role of Marketing Strategy in Pricing 277

Measuring Perceived Value 280

Customer Value 280

Methods 282

Calculating Value-in-Use 283

Simulating the Buying Experience 285

Estimating Brand Equity 286

Using Price Thresholds 286

Dollarmetric Scales 287

Using the Perceived Value Concept 288

Competition and Pricing 290

Competitors' Costs 290

Historical Pricing Behavior 292

The Role of Costs 292

Deciding How Much of the Value-Cost Gap to Capture 294

Penetration Pricing 295

Return on Sales/Investment Pricing 296

Pricing for Stability 296

Skimming 296

Competitive Pricing 296

Other Factors Affecting Price 296

Psychological Aspects of Price 297

Stage of the Product Life Cycle 299

Category Conditions 301

Who Is the Decision Maker? 301

Some Specific Pricing Tactics 302

Product Line Pricing 302

Value Pricing 303

Everyday Low Pricing 304

Differential Pricing 305

Competing against Private Labels 306

Ethical Issues 307

Summary 308

11 Advertising Decisions 309

Overview 309

The Target Audience 313

Setting Advertising Objectives 315

Customer-Oriented Objectives 315

Exposure-Oriented Objectives (Media Planning) 317

Specific Objectives 317

Setting Advertising Budgets Objective and Task 321 321 Percentage-of-Sales Competitive Parity 323 Affordable 324 Experimentation Method 324 Decision Calculus 325 Summary 325 Evaluating Message Copy 326 Laboratory Tests 326 Real-World Measures 328 Media Decisions 329 Where 330 When 332 Overall Considerations 332 Evaluating Advertising Effects 332 Tracking Studies 333 Past Sales and Advertising 333 Experimentation 337 Linking Objectives to Incremental Contribution 337 Advertising Agency Compensation Decisions 339 Summary 340

12 Promotion Decisions 343

Overview 343 Promotion Objectives 348 Consumer Promotions 348 Trade Promotions 350 Promotion Budgeting 350 Overview 350 The Advertising and Promotion Budget 351 Allocating Money between Advertising and Promotion 352 Types of Customer Promotions 353 Product-Based Promotions 353 Price-Based Promotions 354 Other Customer Promotions 355 Summary 355 Trade Promotions 356 Evaluating Customer Promotions 357 Overview 357 Short-Run Evaluation 359 Long-Run Concerns 361 The Competitive Dilemma 362 **Evaluating Trade Promotions**