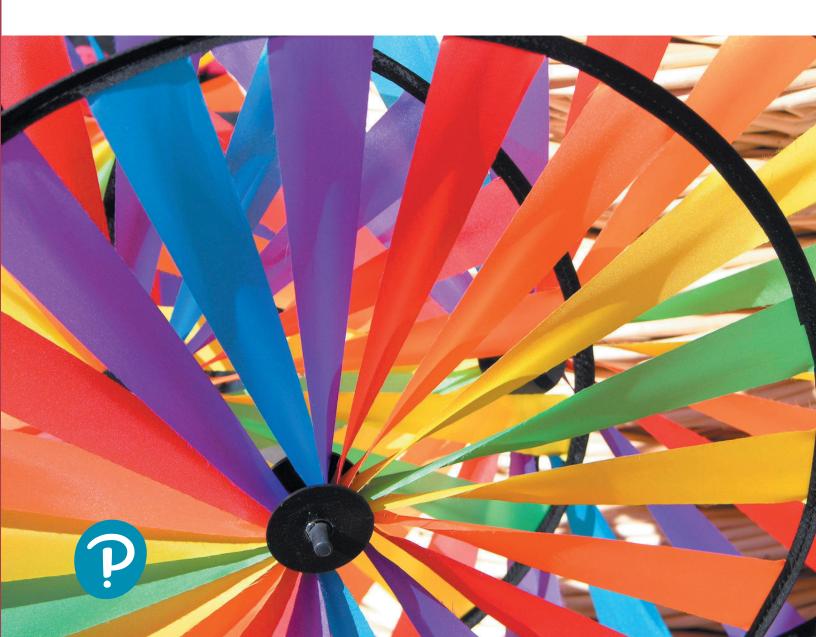


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An Applied Orientation

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To the memory of my father, Mr. H. N. Malhotra and To my mother, Mrs. Satya Malhotra

and

To my wife Veena and children Ruth and Paul

The love, encouragement, and support of my parents, wife, and children have been exemplary.

"The greatest of these is love."

I Corinthians 13:13

"But God showed how much He loved us by having Christ die for us, even though we were sinful."

> Romans 5:8 The Holy Bible

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FOREWORD



he world of business is moving more rapidly than ever, meaning the intelligent and thoughtful use of research is critical to keeping pace. Undoubtedly, the most successful people will have a broad base of education, high levels of communication skills, and creative approaches to the opportunities racing toward us. It is a significant achievement when a textbook such as Dr. Malhotra's allows the classroom to become a source of these skills and greatly enhance the employability of the students.

This text has already proven its worth as one of the most successful in the field, with well over 140 universities using it in the United States and eight foreign-language and several different English-language editions in print. It is unsurpassed in presenting the fundamentals that allow your students to become researchers and intelligent users of

research. The real-life examples, titled Real Research, bring students closer to the world businesspeople face daily. At every step, they can relate to the ongoing Department Store Project, the HP running case, and the practical vignettes that bring the educational material to a realistic and practical level. These materials are complemented by Active Research, Experiential Research, and exercises that offer additional hands-on experience. There is pervasive emphasis on social media, mobile marketing research, ethics, and international marketing research. The text's grasp of the leading edge of research is evident in its integration of modern tools of research such as the Internet, computer analytic software, and the latest management practices. The demonstration movies, screen captures, and step-by-step instructions for running SPSS and SAS programs provide the most extensive help available for learning these statistical packages.

We at Burke, Inc. are pleased to be asked to contribute again to a new edition. We have shared our experiences as well as our philosophies, technical skill, and thoughts about the future of research. This seventh edition of *Marketing Research: An Applied Orientation* provides the foundation we believe every student should have. We are confident you will find its combination of theory, practice, and sound advice to be of great value to both you and your students.

Jeff Miller, Ph.D. President and CEO, Burke, Inc. This page intentionally left blank

Helping Teach Students Marketing Research

I wrote this book to provide an applied and practical marketing research text with comprehensive, balanced coverage of both qualitative and quantitative material. It takes the perspective of a marketing research user and reflects current trends in international marketing research, social media, mobile marketing research, ethics, and the integration of the Internet and computers. All chapters focus on the practice of marketing research by featuring a variety of marketing companies and marketing research organizations. Several features make the book distinctive.

It has a unique applied and managerial orientation, illustrating the interaction between marketing research decisions and marketing management decisions. It also emphasizes a hands-on, do-it-yourself approach, affording students several opportunities to experience these interactions through pedagogical tools such as Real Research, Active Research, Experiential Research, Project Research, Live Research, cases, video cases, and extensive review questions, Internet and computer exercises, role playing, field work, and group discussions. The data analysis chapters tightly integrate SPSS and SAS, illustrating each step in running these programs in detail and providing three distinct ways that students can learn the programs on their own: (1) step-by-step instructions in the book (2) screen captures with notes for each step, and (3) demonstration movies illustrating each step. This book provides marketing research students the most extensive help available to learn SPSS and SAS.

The response to the first six editions has been truly gratifying, with more than 144 universities adopting the book in the United States. The book has been translated into eight languages: Chinese, Russian, Spanish, Portuguese, French, Hungarian, Bahasa Indonesia, and Japanese. English-language editions include North American, International, European, Arab, and Indian, as well as texts for Australia and New Zealand. I want to express my sincere thanks and appreciation to all the professors and students who have contributed to the success of the book as adopters, users, reviewers, and providers of valuable feedback and encouragement. The seventh edition attempts to build on this success to make the book even more current, contemporary, illustrative, and sensitive to user needs.

About the Seventh Edition

The book is organized into three parts, based on a six-step framework for conducting marketing research. Part I provides an introduction and discusses problem definition, the first and most important step. The second step in the marketing research process is understanding the nature and scope of research to develop an approach to the problem. Part II covers research design, the third step, and describes exploratory, descriptive, and causal research designs in detail. It identifies the types of information marketing research provides and the appropriate scales for obtaining it. We present several guidelines for designing questionnaires and explain the procedures, techniques, and statistical considerations in sampling.

Part III presents a practical and managerially oriented discussion of fieldwork, the fourth step in the marketing research process. It also covers data preparation and analysis, the fifth step. We discuss the basic and advanced statistical techniques in detail, with emphasis on procedures, interpretation of results, and managerial implications rather than on statistical elegance. We feature four statistical packages—SPSS, SAS, MINITAB, and Excel—but our focus is on SPSS and SAS.

Specifically, the seventh edition contains the following:

 Integration of Social Media. The seventh edition features an innovative and pervasive integration of social media. There is a separate section entitled "Marketing Research and Social Media" in each chapter, except the data analysis chapters. In addition, the use of social media is discussed in several other sections of the chapter, including end of chapter questions, HP running case, cases, and video cases. We focus on social media both as an application of marketing research and as a domain in which to conduct marketing research. While we do not expect social media research to replace traditional marketing research, we predict that social media will become an increasingly important domain that complements traditional marketing research.

- **2. Integration of Mobile Marketing Research.** The seventh edition features a pioneering and pervasive integration of mobile marketing research (MMR). There is a separate section entitled "Mobile Marketing Research" in each chapter, except the data analysis chapters. In addition, MMR is discussed in several other sections of the chapter, including end of chapter questions.
- **3.** Added Emphasis on SPSS and SAS. Relevant chapters contain a special section on SPSS Windows along with another on SAS Enterprise Guide, that illustrate the relevant programs and the steps required to run them. The Companion Web site provides SPSS and SAS files for all input data sets featured in the data analysis chapters (Chapters 14 through 22), input data sets that appear in Internet and Computer Exercises, input data sets for cases (Cases 1.1, 3.1, 3.2, 3.3, 4.1, and 4.2), and the Wal-Mart project. The SAS steps that are illustrated apply to the SAS Enterprise Guide, the user interface for SAS OnDemand for Academics. The Companion Web site can be accessed at www.pearsonglobaleditions.com.
- 4. Video Cases. Each chapter of the book, except the data analysis chapters, is accompanied by a video and video case written from a marketing research perspective with marketing research questions. Videos are available at www.pearsonglobaleditions.com and solutions appear in the *Instructor's Manual*.

Instructor Teaching Resources

Marketing Research comes with the following teaching resouces:

Supplements available to instructors at www.pearsonglobaleditions.com	Features of the Supplement
Instructor's Manual Test Bank	 Chapter-by-chapter summaries Examples and activities not in the main book Teaching outlines Teaching tips Solutions to all questions and problems in the book 2,200 multiple-choice, true/false, short-answer, and
	 graphing questions with these annotations: Difficulty level (1 for straight recall, 2 for some analysis, 3 for complex analysis) Type (Multiple-choice, true/false, short-answer, essay) Topic (The term or concept the question supports) Learning outcome AACSB learning standard (Written and Oral Communication; Ethical Understanding and Reasoning; Analytical Thinking; Information Technology; Interpersonal Relations and Teamwork; Diverse and Multicultural Work; Reflective Thinking; Application of Knowledge) Page number in the text
Computerized TestGen	 TestGen allows instructors to: Customize, save, and generate classroom tests Edit, add, or delete questions from the Test Item Files Analyze test results Organize a database of tests and student results
PowerPoints	 PowerPoints meet accessibility standards for students with disabilities. Features include, but not limited to: Keyboard and Screen Reader access Alternative text for images High color contrast between background and fore-ground colors

 Data Set and Files Data for Case 1.1 HP; Case 3.1 AT&T Case 3.2 IBM; Case 3.3 Kimberly-Clark; Case 4.1 JPMorgan Chase and Case 4.2 Wendy's given in the book (SPSS and SAS). The output files containing the answers to the data analysis questions are also provided. Data files for Wal-Mart running project and output files containing the answers to data analysis in the associated project activities. Data files for all the Internet and Computer Exer- cises (SPSS and SAS). The output files containing the answers to the data analysis questions are also provided. Data file for the data set(s) used in each data analysis chapter (SPSS and SAS). The output files containing the analysis are also provided. SPSS and SAS computerized demonstration movies 	Supplements available to instructors on the Companion Web site	Features of the Supplement
 SPSS and SAS screen captures with notes 	Data Set and Files	 Case 3.3 Kimberly-Clark; Case 4.1 JPMorgan Chase and Case 4.2 Wendy's given in the book (SPSS and SAS). The output files containing the answers to the data analysis questions are also provided. Data files for Wal-Mart running project and output files containing the answers to data analysis in the associated project activities. Data files for all the Internet and Computer Exer- cises (SPSS and SAS). The output files containing the answers to the data analysis questions are also provided. Data file for the data set(s) used in each data analysis chapter (SPSS and SAS). The output files containing the analysis are also provided. SPSS and SAS computerized demonstration movies

Marketing Research, 7th Edition, Global Edition, is available as an eBook and can be purchased at most eBook retailers.

Many people have been extremely helpful in the writing of this textbook. I would like to acknowledge the late Professor Arun K. Jain (State University of New York at Buffalo), who taught me marketing research in a way I will never forget. My students, particularly former doctoral students James Agarwal, Imad Baalbaki, Ashutosh Dixit, Dan McCort, Rick McFarland, Charla Mathwick, Gina Miller, Mark Peterson, Jamie Pleasant, Cassandra Wells, and Ashutosh Patil, as well as other doctoral students Mark Leach and Tyra Mitchell, have been very helpful in many ways.

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Naresh K. Malhotra

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In an article by Wheatley and Wilson (1987 AMA Educators' Proceedings), Professor Malhotra was ranked number one in the country based on articles published in the Journal of Marketing Research (JMR) during 1980–1985. He holds the all-time record for the maximum number of publications in the Journal of Health Care Marketing. He is ranked number one based on publications in the Journal of the Academy of Marketing Science (JAMS) since its inception through volume 23 (1995). He is number one based on publications in JAMS during the ten-year period 1986–1995 (See Tables 6 and 7 of JAMS, 24(4) (Fall 1996):297). In an editorial by Schlegelmilch (JIM, 11(1), 2003), Malhotra was ranked number one based on publications in the International Marketing Review (IMR) from 1992 to 2002. He is ranked number one based on publications in the International Marketing Review since its inception (1983) to 2003 [Table V, IMR, 22(4) (2005); 396], and from 1983 to 2011 [Table VI, *IMR*, 30(1) (2013):14]. He is also ranked number one based on publications in the International Marketing Review from 1996 to 2006 based on a study by Xu et al. published in the Asia Pacific Journal of Management (2008) 25: 189–207. In a landmark study by Ford et al. (2010) examining publications in the top four marketing journals [Journal of Marketing, Journal of Marketing Research (JMR), Journal of Consumer Research, and the Journal of the Academy of Marketing Science (JAMS)] over a 25-year period from 1977 to 2002, Professor Malhotra has three top-three rankings: ranked number three based on publications in all the four journals combined, ranked number three based on publications in JMR, and ranked number one based on publications in JAMS. He has published ten papers in Journal of Marketing Research.

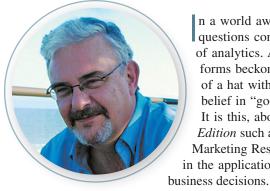
He has published more than 140 papers in major refereed journals, including the *Journal* of Marketing Research, Journal of Consumer Research, Marketing Science, Management Science, Journal of Marketing, Journal of Academy of Marketing Science, Organizational Research Methods, Journal of Retailing, Journal of Advertising, Journal of Health Care Marketing, and leading journals in statistics, management science, information systems, and psychology. In addition, he has published numerous refereed articles in the proceedings of major national and international conferences. Several articles have received best paper research awards.

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COMMENDATION



n a world awash with cheap behavioral data, it is tempting to believe that answers to questions concerning consumer behavior can all be answered through the application of analytics. Additionally, the advent of inexpensive, automated survey research platforms beckons not just researchers, but everyone, to put surveys up online at the drop of a hat without really understanding the science behind them. Combine these with a belief in "good enough" and you have a recipe for disastrous and expensive mistakes. It is this, above all, that makes *Marketing Research: An Applied Orientation, Seventh Edition* such an important and essential companion to the researcher and marketer alike. Marketing Research is both science and art and this edition provides a secure grounding in the application of both in the pursuit of accurate and impactful insights that can drive

Simon Chadwick, Managing Partner, Cambiar Consulting Chairman, Insights Association Editor-in-Chief, *Research World*

PART 1

INTRODUCTION AND EARLY PHASES OF MARKETING RESEARCH

► In this part, we define and classify marketing research and set out a six-step marketing research process. We discuss the nature and scope of marketing research and explain its role in marketing decision making. We describe the marketing research industry and the many exciting career opportunities in this field. We discuss problem definition, the first and the most important step, in detail. Finally, we describe the development of an approach to the problem, the second step in the marketing research process, and discuss in detail the various components of the approach. The perspective given in these chapters should be useful to both marketing decision makers and researchers.

1 Introduction to Marketing Research 28

2 Defining the Marketing Research Problem and Developing an Approach 57

Introduction to Marketing Research

66 The role of a marketing researcher must include consulting skills, technical proficiency, and business sense. The focus of the role is to provide information and insights to identify marketing problems and solutions in such a way that action can be taken.



Courtesy of Jeff Miller

Jeff Miller, President and CEO, Burke, Inc.

Objectives

After reading this chapter, the student should be able to:

- **1.1** Define marketing research and distinguish between problem-identification research and problem-solving research.
- **1.2** Describe a framework for conducting marketing research as well as the six steps of the marketing research process.
- **1.3** Understand the nature and scope of marketing research and its role in designing and implementing successful marketing programs.
- **1.4** Explain how the decision to conduct marketing research is made.
- **1.5** Discuss the marketing research industry and the types of research suppliers, including internal, external, full-service, and limited-service suppliers.
- **1.6** Describe careers available in marketing research and the backgrounds and skills needed to succeed in them.
- **1.7** Acquire an appreciation of the international dimension and the complexity involved in international marketing research.
- **1.8** Describe the use of social media as a domain in which to conduct marketing research.
- **1.9** Discuss the developing field of mobile marketing research and its advantages and disadvantages.
- **1.10** Gain an understanding of the ethical aspects of marketing research and the responsibilities each of the marketing research stakeholders have to themselves, one another, and the research project.

Overview

Marketing research comprises one of the most important and fascinating facets of marketing. In this chapter, we give a formal definition of marketing research and classify marketing research into two areas: problemidentification and problem-solving research. We provide several real-life examples to illustrate the basic concepts of marketing research. We describe the marketing research process and the six steps that are involved in conducting research and discuss the nature of marketing research, emphasizing its role of providing information for marketing decision making. Next, we provide an overview of marketing research suppliers who collectively constitute the marketing research industry, along with guidelines for selecting a supplier. The demand for well-executed

marketing research leads to many exciting career opportunities, which we describe.

Several real-life examples, entitled "Real Research," are given in each chapter to illustrate the various concepts. We examine a department store patronage project, which was an actual marketing research project conducted by the author, and use it as a running example throughout the book. The scope of this project has been expanded in the seventh edition to include questions, and we make available the relevant data for analysis. These "Project Research" sections appear in each chapter. Throughout this book, we also discuss applications to contemporary issues of importance in the current marketing and marketing research environment: international marketing

research, social media, mobile marketing research, and ethics. The extensive and pervasive emphasis on social media as a domain to conduct marketing research and the use of mobile marketing research are new to the seventh edition. Each chapter includes several Internet and hands-on applications of marketing research in the form of "Active Research" and "Experiential Research" illustrations with exercises, other emphases that pervade the entire book. For instructors wishing to implement a real-life marketing research project, we include a section titled "Live Research: Conducting a Marketing Research Project." Perhaps there is no better way to present an overview than to give a few examples that provide a flavor of the varied nature of marketing research.

Real Research

EgyptAir: Taking Flight

EgyptAir Holding Company, a public sector company with 11 subsidiaries, commissioned a marketing research agency to conduct a marketing feasibility study of its current ticketing offices across the world and the market

potential to open new ticketing offices in proposed locations worldwide. The Company hoped to boost its marketing-based competitiveness as a member of Star Alliance by closing down present ticketing offices with



Cholakov/Shutterstoc

limited economies of scale, augmenting present ticketing offices with high demand, opening new ticketing offices with high market potential, and avoiding opening new ticketing offices with low market potential.

The intent of the marketing effectiveness study is to help accomplish its strategic and core agenda for the next five years. The long-term marketing goal is for the company to build a unique business portfolio superior to its direct competitors under a specific environmental marketing context in terms of economic, political-legal, sociocultural, demographic-firmgraphic, technological, and natural dimensions. The following consulting activities have been undertaken:

- A marketing evaluation study based on benchmarks for existing ticketing offices in terms of sales turnover, marketing ROI, market share, brand equity, customers satisfaction, and market orientation
- A market potential and initial demand and sales forecast for target ticketing office locations in terms of their size, existing patterns, emerging trends, time extrapolations, and growth drivers
- **3.** An exploratory market survey of target markets to augment forecasted demand and sales through

competitive analysis and by examining customers' needs, buying behavior, profiles, and values

4. Deciding on the best strategic options for market penetration and development through effective targeting and positioning of its portfolio of destinations in terms of differentiation, cost leadership, and focus

This project relied on a hybrid methodology of exploratory, descriptive, normative, and causal designs. For data collection and interpretation, the methods included the quota sampling plan, theoretical analysis of relevant literature, analysis of secondary data, qualitative methods (in-depth interviews and focus groups), and multivariate data analysis.

The project has delivered the following outputs: (1) a future-oriented marketing effectiveness audit of existing ticketing offices; (2) an integrated market potential for the proposed ticketing offices locations; (3) an exploratory marketing survey report of target market segments for the proposed ticketing offices locations; (4) an initial action-oriented and benchmarked market penetration and development strategy for existing and proposed ticketing offices locations, and (5) benchmarks for monitoring and evaluating the strategic marketing performance of the proposed strategic marketing design over the next five years.

Real Research

Satmetrix Puts Customer Metrics in Real Time

Many of the nation's largest corporations are realizing that the information they can get from clients and customers through marketing research can best be used if it is provided each day. How about each minute? This is the basis upon which a company called Satmetrix (www.satmetrix .com), a customer feedback solution company, operates in real time. The Satmetrix Customer Relationship program is designed to maximize the impact of customer interactions by continuously gathering and transforming customer dialogues into potential actions that can be taken to increase sales and customer satisfaction. This program is focused on feeding the voice of the customers back into the organization. Not only can customers go online and submit complaints and suggestions to the company, but Satmetrix also hosts live chat sessions for users of certain products. All of this is done with the aim of capturing the true words and emotions of consumers and in turn using this information to improve or develop products and services. Satmetrix capitalizes on the need for "live" marketing research.

As of 2018, the Internet continues to revolutionize the marketing research process. With the use of online services, there is no need for extra data input that traditional research methods require. Satmetrix itself is not the traditional full-service supplier of marketing research. As a standardized limited-service provider, the company does not get involved with every aspect of the research process. The approach, design, and data preparation are the same for each customer, and these are the parts of the research process with which the company is involved.

Satmetrix's service, however, aids clients in identifying any problems with products through customer feedback and with problem solving, especially if customers give suggestions. For example, network station NBC (www.nbc .com) takes advantage of Satmetrix services to obtain feedback from viewers. It helps the network to learn what viewers are looking for, their likes, and their dislikes. Ideally, the feedback is used and television shows are altered to more closely suit viewers' tastes and desires, thus leading to an increased number of people tuning in to watch the shows. As a result, in 2017, NBC claimed the number one spot in a wide range rage of show categories: Drama (This Is Us), Reality Show (The Voice), Primetime Show (Sunday Night Football), Late Night (The Tonight Show Starring Jimmy Fallon, Late Night with Seth Meyers, Saturday Night Live), and Broadcast News (Nightly News with Lester Holt, Meet the Press, TODAY).¹