

Quantitative Research In Education A Primer

This book provides a clear and straightforward guide for all those seeking to conduct quantitative research in the field of education, using primary research data samples. While positioned as less powerful and somehow inferior, non-parametric tests can be very useful where the research can only be designed to accommodate data structure which is ordinal, or scale but violates a normality assumption, which is required for parametric tests. Non-parametric data are a staple of educational research, and as such, it is essential that educational researchers learn how to work with these data with confidence and rigour.

Quantitative Research for the Qualitative Researcher is a concise, supplemental text that provides qualitatively oriented students and researchers with the requisite skills for conducting quantitative research. Throughout the book, authors Laura M. O'Dwyer and James A. Bernauer provide ample support and guidance to prepare readers both cognitively and attitudinally to conduct high quality research in the quantitative tradition. Highlighting the complementary nature of quantitative and qualitative research, they effectively explain the fundamental structure and purposes of design, measurement, and statistics within the framework of a research report, (including a dissertation). The text encourages the reader to see quantitative methodology for what it is? a process for systematically discovering new knowledge that can help describe, explain, and predict the world around us.

Aimed at empowering students with the information necessary to choose the best approach to fit their needs, the text outlines numerous research options from varying

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viewpoints, and highlights the procedures involved with putting each method into practice.

Accompanying CD-ROM contains ... "[t]he data sets that are used to illustrate statistical procedures in Chapters 16 and 17"--Page xvii.

The aim of this book is to bridge the gap between introductory and more advanced 'technical' books on quantitative methods, helping the reader to progress clearly.

Focused on providing as full a picture as possible of what is considered to be "good" research, *Research Methods in Education and Psychology* explains quantitative and qualitative methods and incorporates the viewpoints of various research paradigms into the descriptions of these methods. It not only covers two of the standard paradigms (postpositivist and interpretive/constructivist) but also a relatively new emancipatory paradigm that is inclusive of the perspectives of feminists, ethnic/racial minorities, and persons with disabilities. In each chapter, Donna M. Mertens carefully explains a step of the research process from the literature review to types of research method to analysis and reporting of quantitative or qualitative approaches. As an added plus, she includes a sample study and abstract in each chapter to illustrate the concepts discussed in that chapter.

To enhance your students reading, she has also included:

- Chapter opening examples and lists of topics to consider
- Boxed examples and points to consider
- Sample studies in every chapter to illustrate key ideas
- Sequence steps to guide each stage of the research process
- End-of-chapter "Questions and Answers for Discussion and Application" to elicit further reflection of the material covered

This concise, applied, and very clearly written introduction to qualitative research methods can be used effectively in a semester, or year-long course. This introductory-level text provides the reader with a background for understanding the

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uses of qualitative research in education (and other professions) examining its theoretical and historical underpinnings, and providing the "how-to's" of doing qualitative research. This new edition places qualitative research within current debates about research methods and alternative ways of knowing. While the authors approach the subject from a sociological perspective, they also take care to reflect the many changes in conceptualization of qualitative research brought by post-structural and feminist thought. New to This Edition: - Rewritten Chapter 5, "Data Analysis," places more emphasis on the interpretive aspect of research and research writing. - Expanded coverage of action or practitioner research (Chapter 7) highlights a topic that is of immediate use. - Added emphasis on technology and qualitative analysis software in qualitative research helps students to use and incorporate technology efficiently. Links to useful research websites have also been integrated throughout. - Expanded coverage of such topics as formal research designs, work with different cultures, critical race theory, and the debate over quantitative vs. qualitative research. - New end-of-chapter summaries, questions, and field assignments have been added to make this text easy to use with students.

A classic in the field, *INTRODUCTION TO RESEARCH METHODS IN EDUCATION*, 8th Edition, helps students master the basic competencies necessary to understand and evaluate the research of others, and shows them how to plan and conduct original research. The text's strengths include a clear writing style, comprehensive topic coverage, well-chosen and effective examples that clarify complex concepts, and strong end-of-chapter exercises that expose students to intriguing research problems. This edition builds on the text's strengths of teaching students to become more competent consumers and producers of research. Important Notice:

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Media content referenced within the product description or the product text may not be available in the ebook version. To say that complex data analyses are ubiquitous in the education and social sciences might be an understatement. Funding agencies and peer-review journals alike require that researchers use the most appropriate models and methods for explaining phenomena. Univariate and multivariate data structures often require the application of more rigorous methods than basic correlational or analysis of variance models. Additionally, though a vast set of resources may exist on how to run analysis, difficulties may be encountered when explicit direction is not provided as to how one should run a model and interpret results. The mission of this book is to expose the reader to advanced quantitative methods as it pertains to individual level analysis, multilevel analysis, item-level analysis, and covariance structure analysis. Each chapter is self-contained and follows a common format so that readers can run the analysis and correctly interpret the output for reporting.

This substantially revised text provides a comprehensive, highly accessible, and student friendly introduction to the principles, concepts, and methods currently used in educational research. This text provides a balanced combination of quantitative and qualitative methods and enables students to master skills in reading, understanding, critiquing,

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and conducting research. The treatment of qualitative research is parallel to that of quantitative research to enable students to better understand all approaches to research. This text uses extensive examples from different journals, thoughtful pedagogy that includes instructional aids, instructional tests, key terms, application problems, concept maps, criteria for evaluating studies, and MyEducationLab for Research, a new interactive website.

This text provides a comprehensive introduction to educational research. Each step in the research process is described and discussed in detail, and thorough coverage of the most widely-used research methodologies in education is provided. New to this edition is an expanded focus on qualitative methods. New Parts V and VI provide an expanded introduction to qualitative methods, and take a close look at different qualitative methodologies. Also new is an enhanced chapter on Action Research.

Examples of key concepts and ideas in all chapters highlight the texts practicability, and step-by-step analyses of real research studies, and. End-of-chapter Problem Sheets, comprehensive coverage of data analysis, and how to prepare research proposals and reports make the text appropriate both for courses that focus on doing research and for those that stress how to read and understand research. To keep students engaged, the authors'

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writing is simple and direct. Clarifying examples, summarizing charts, tables and diagrams, numerous illustrations of key concepts and ideas, and a friendly two-color design enhance the content. This is the only copiously illustrated educational research text available. Packaged with the text are an Interactive Student CD-Rom and Student Workbook that provide practice opportunity and resources.

“The emphasis on minority populations has caught my attention and sustained my loyalty. Donna is so sensitive in exploring those issues, a first in a text for that class and a welcome addition.” —Nick Eastmond, Utah State University

Focused on discussing what is considered to be “good” research, this text explains quantitative, qualitative, and mixed methods in detail, incorporating the viewpoints of various research paradigms into the descriptions of these methods. Approximately 60% of the content in this Third Edition is new, with lots of fresh examples. Key Features Postpositivist, constructivist, transformative, and pragmatic paradigms discussed Conducting research in culturally complex communities emphasized throughout A step-by-step overview of the entire research process provided New to this Edition New coverage on how to write a literature review and plan a dissertation New pedagogy including “Extending Your Thinking” throughout This is a core or supplemental text for research courses in

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departments of education, psychology, sociology, social work and other human-services disciplines. Disaster Management is an intended textbook for students pursuing a first and intermediate course on the subject in any undergraduate programme, especially engineering courses like civil, structural, geotechnical engineering and other specialized courses on the subject. The latest AICTE and the earlier UGC model curriculums have been extensively consulted to design the contents of the book. Knowledge of research methodology is essential for all who either play an active role in conducting research or desire to keep themselves updated in the field of knowledge. Keeping this in mind, this edition has been thoroughly revised. The book contains an up-to-date account of the methods and techniques suited to the field of education and other allied disciplines and thus provides an understanding of significant research problems that need to be tackled. The book elaborates the quantitative and qualitative data analysis techniques; use of descriptive and inferential statistics; reporting of the results of research along with the characteristics and uses of historical, descriptive, ethnographic and experimental methods. Case studies form an important part of the text. It also provides priority areas of educational research in India in the context of National Education Policy (1986) and its Programme of Action (1992), UGC,

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DEC-IGNOU (2006), NCERT (2005), and UNESCO initiatives and policies as well as the Surveys of Research in Education (1997 and 2006). Designed and written mainly for the students of M.A. (Education, Psychology and Sociology), M.Ed. and M.Phil. (Education, Psychology and Sociology), the book will be of immense value to the Ph.D. students and other researchers of Social Sciences, Biological Sciences, Management, Legal Studies, Humanities and Languages.

As part of their research activities, researchers in all areas of education develop measuring instruments, design and conduct experiments and surveys, and analyze data resulting from these activities.

Educational research has a strong tradition of employing state-of-the-art statistical and psychometric (psychological measurement) techniques. Commonly referred to as quantitative methods, these techniques cover a range of statistical tests and tools. Quantitative research is essentially about collecting numerical data to explain a particular phenomenon of interest. Over the years, many methods and models have been developed to address the increasingly complex issues that educational researchers seek to address. This handbook serves to act as a reference for educational researchers and practitioners who desire to acquire knowledge and skills in quantitative methods for data analysis or to obtain deeper

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insights from published works. Written by experienced researchers and educators, each chapter in this handbook covers a methodological topic with attention paid to the theory, procedures, and the challenges on the use of that particular methodology. It is hoped that readers will come away from each chapter with a greater understanding of the methodology being addressed as well as an understanding of the directions for future developments within that methodological area. *Quantitative Research for the Qualitative Researcher* is a concise, supplemental text that provides qualitatively oriented students and researchers with the requisite skills for conducting quantitative research. Throughout the book, authors Laura M. O'Dwyer and James A. Bernauer provide ample support and guidance to prepare readers both cognitively and attitudinally to conduct high quality research in the quantitative tradition. Highlighting the complementary nature of quantitative and qualitative research, they effectively explain the fundamental structure and purposes of design, measurement, and statistics within the framework of a research report, (including a dissertation). The text encourages the reader to see quantitative methodology for what it is, a process for systematically discovering new knowledge that can help describe, explain, and predict the world around us.

This is a comprehensive guide to quantitative

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research, rooted in the author's own teaching and research. In particular, it challenges both the student who "does not do numbers" and the student who does nothing but numbers (and who therefore fails to interpret or challenge his/her results). The book shows how all educational researchers need to "do" quantitative research, even if only in the sense of reading other people's research findings. In fact, the book argues that the conventional distinction between primary and secondary research data is inadequate, since there is enormous need/opportunity for conducting research through using and reinterpreting secondary data. This leads to one of the main selling points of the book - Gorard's idea of the "idle researcher", who makes valuable contributions to the research literature by using data gathered by other researchers.

Annotation. This is an accessible introduction to using quantitative methods in educational research. Writing for non-mathematical students and avoiding the use of mathematical formulae where possible, this introductory text is ideal for students and researchers with no prior knowledge of quantitative methods.

This book provides a refreshing and user-friendly guide to quantitative data analysis in education for students and researchers. It assumes absolutely no prior knowledge of quantitative methods or statistics. Beginning with the very basics, it provides the reader with the knowledge and skills necessary to be able to undertake routine quantitative data analysis to a level expected of published research. Rather than focusing on teaching statistics through mathematical

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formulae, the book places an emphasis on using SPSS to gain a real feel for the data and an intuitive grasp of the main concepts and techniques involved. Drawing extensively upon up-to-date and relevant examples, the reader will be encouraged to think critically about quantitative research and its potential as well as its limitations in relation to education. Packed with helpful features, this book: provides illustrated step-by-step guides showing how to use SPSS, with plenty of exercises to encourage the reader to practice and consolidate their new skills makes extensive use of real-life educational datasets derived from national surveys in the US and UK to illustrate key points and to bring the material to life has a companion website that contains all of the educational datasets used in the book to download as well as comprehensive answers to exercises and a range of other useful resources that are regularly updated. The book will therefore appeal not only to undergraduate and postgraduate students but also to more established and seasoned educational researchers and lecturers and professors who have tended to avoid or shy away from quantitative methods. Educational Research: Quantitative, Qualitative, and Mixed Approaches by R. Burke Johnson and Larry Christensen offers a comprehensive, easily digestible introduction to research methods for undergraduate and graduate students. Readers will develop an understanding of the multiple research methods and strategies used in education and related fields, including how to read and critically evaluate published research and how to write a proposal, construct a questionnaire, and conduct an empirical research study on their own. The Seventh Edition maintains the features that made this book a best-seller, including attention-grabbing chapter-opening vignettes, lively examples that engage student interest, a conversational and friendly writing style, and more. With the support of this highly readable text,

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readers will transform into critical consumers and users of research. FREE DIGITAL TOOLS INCLUDED WITH THIS TEXT SAGE edge gives instructors and students the edge they need to succeed with an array of teaching and learning tools in one easy-to-navigate website. Learn more: edge.sagepub.com/rbjohnson7e

Quantitative Research in Education: A Primer is a brief and practical guide to conducting research in Education. It provides a reference point for beginning educational researchers to grasp the most pertinent elements of designing and conducting research. Starting with the nature of research and science, it then turns to the meaning of concepts, variables, and research in education to cover the entire research process. The goal of this text is to dispel notions that quantitative research is too difficult, too statistical, and too theoretical, and generate interest and understanding in using this type of research creatively and effectively. Features: Demonstrates all concepts in the text with concrete examples specific to Education Examines the conceptual foundations of statistics in order to better understand quantitative research Charts allow students to select appropriate statistical techniques for given scenarios A brief set of exercises at the conclusion of each chapter allow for immediate practice of key concepts Provides particular strategies and techniques to help students understand the process of creating their own hypotheses

The research process in this book begins with identification of the research question and proceeds through each step including planning data collection, actual collection and analysis of the data, and writing the report. This text proceeds through multiple methodologies including experimental and non-experimental, quantitative and qualitative. At every step the emphasis is on planning and executing the study. Key features: o Simulations and feedback that may be used in

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class sessions for both individual and small group participation o Pedagogy to help students plan and conduct a research project in an actual classroom o Examples that demonstrate and explain what constitutes good and poor research questions o Case studies and "real life" examples related to education o A Student Web site that provides students with the opportunity to interact with contemporary articles. This book provides an introduction to research that emphasizes the fundamental concepts of planning and design. It is designed to be a core text for the very first course on research methods.

"In this update of the 2008, 2005, and 2002 editions, Creswell (U. of Nebraska-Lincoln) provides clear coverage of all the phases of the main quantitative and qualitative approaches in educational research: from identifying a problem that defines the goal of research to reporting and evaluating research. A new feature on ethical dilemmas is part of the greater emphasis on ethical issues. The text includes useful tips for producers and consumers of research, new sample articles from journals, chapter study questions with an answer key, statistical appendices, additional resources, updated references, and access to an online study resource."--Provided by publisher.

This accessible and authoritative introduction is essential for education students and researchers needing to use quantitative methods for the first time. Using datasets from real-life educational research and avoiding the use of mathematical formulae, the author guides students through the essential techniques that they will need to know, explaining each procedure using the latest version of SPSS. The datasets can also be downloaded from the book's website, enabling students to practice the techniques for themselves. This revised and updated second edition now also includes more advanced methods such as log linear

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analysis, logistic regression, and canonical correlation. Written specifically for those with no prior experience of quantitative research, this book is ideal for education students and researchers in this field.

This exciting collection is both useful and timely. It clearly lays out the problems, strategies and resources associated with the teaching of quantitative methods in modern universities. Addressing the perceived 'crisis of number' in a practical and fresh way the book sets out dynamic new approaches to teaching quantitative methods. It offers historical, comparative, analytical reflection and empirical evidence concerning the crisis in contemporary social sciences. Experts from across the social sciences provide a wide range of authoritative insights as well as a number of useful illustrations of strategies and resources designed to help overcome this 'crisis of number'. Each chapter reflects the diversity of backgrounds and approaches within the social sciences making this an interdisciplinary, relevant addition to the subject. The book also:

- o focuses on innovations in how to teach quantitative research methods
- o reports on the latest ESRC research projects on teaching quantitative methods
- o locates itself within current debates about skills for employment.

Clear, engaging and original this book will be essential reading for those interested in learning and teaching quantitative methods.

Educational Research: Quantitative, Qualitative, and Mixed Approaches, Fourth Edition is a graduated text that introduces readers to the fundamental logic of empirical research and the sources of research ideas. Detailed descriptions guide students through the design and implementation of actual research studies with a balanced examination of quantitative,

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qualitative, and mixed research. Definitions of key terms are provided in the margins for easy reference and to help students understand the multiple research methods and strategies used in education and related fields. New Features: - Student study site materials are integrated within the text, with the use of marginal icons depicting interactive concept maps, journal articles, and tools and tips. - New "Action Research" activity for each chapter is included. - A chapter on Writing the Research report incorporates changes in new edition of the Publication Manual of the APA, and includes a sample manuscript using APA style. - New exhibits on Egon G. Guba and Donald T. Campbell, and a new table on applying qualitative research validity strategies are incorporated. - New material on research paradigms, types of plagiarism, using free software for random sampling and assignment, nomological vs. ideographic causation are integrated. - Several chapters are slightly shortened and made simpler, without sacrificing any of the book's rigor.

Education research can be described as a one systematic and organized form of investigation towards a specific problem that comes under the way of work setting environment, which needs an immediate solution. Research methodology requires a series of steps for designing and execution of goal to find the ultimate answers related to those issues

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that affect the working environment. The first step in research is to know where the problem exists in the organization structure and then to identify as clearly and possibly to study and resolve the problems. The entire process through which the problems are solved is called a research. Research thus consists of systematic process of inquiry, examination and experimentation. This book throws light on education research which is defined as an organized, systematic, critical, data-based, objective, inquiry and investigative into a specific problem that deals with the purpose of finding the answers and solutions to deal the problems. The book shows the essence of research that provides the complete information to guide the decision makers to successfully deal with the problems. The data required for the analysis consist of two basic types of data that is, quantitative data and qualitative data where former relates to the data in the form of numbers gathered through structured questionnaire and later, relates to the data in the form of words collected through broad range of questions and answers in interviews or open-ended questions or through some observations gathered from various sources of internet. Chapter 1 of this book introduces and explains the alternative approaches of research that helps the student to develop the skills of doing research investigation. It further describes the hypothetico-deductive methods to study a problem. It

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also gives the description about the questions of research, research design and the methods of research. Second chapter gives a brief description about the research design and methodologies such as case studies which is a part of research design along with the layout of blueprints in research design. Chapter 3 gives a drive through the types of research in education where applied basic, qualitative and quantitative, and ex-post facto research have been discussed in detail. Chapter 4 and chapter 5 show the basic statistical tools that are required for the research such as measures of central tendency, hypothesis testing and test of statistics and next chapter shows the ways of data collection like through questionnaires, open ended interviews along with closed ended interviews where data is collected and analysis of data is discussed in further chapters. Concluding chapters discuss about the qualitative and quantitative analysis where former tells about advantages and limitations of qualitative research and later discusses about the construction of hypothesis and its testing and gives a brief description about the correlation and regression analysis. The last chapter discusses about the recent developments and future prospects of research in the field of education.

"This book offers a comprehensive presentation of quantitative research design and statistical methods in the context of education and related fields. The

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text is intended primarily for use by students taking intermediate and advanced quantitative research courses as a part of their graduate degree program, but it can be a useful resource for researchers"--Back cover.

Qualitative Research in Education: A User's Guide, Third Edition continues to bring together the essential elements of qualitative research, including traditions and influences in the field and practical, step-by-step coverage of each stage of the research process. Synthesizing the best thinking on conducting qualitative research in education, Marilyn Lichtman uses a conversational writing style that draws readers into the excitement of the research process.

An excellent resource covering quantitative and qualitative methodologies for research students in education embarking upon their Research Methods MA, PhD, EdD or MPhil.

"This excellent book promises much and delivers a whole lot more. It provides a description of the practicalities of combining evidence from a variety of data collection modes in order to enrich our responses to educational research questions. This is achieved with thoroughness and clarity and even some wit. There are outstanding teaching materials here.... This is the best book on educational research methods published in this country for decades."

Professor Charles Desforges, University of Exeter

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"In this timely and important contribution, Stephen Gorard and Chris Taylor help us move beyond the wasteful schism of 'qualitative versus quantitative' research by offering sound basic theorising and extensive practical illustration of the combining of research methods... I see their book as essential reading for anyone concerned for effective educational and social research." Professor Peter Tomlinson, University of Leeds

There is growing interest in the possibilities of combining research approaches in education and social sciences, as dissatisfaction mounts with the limitations of traditional mono-method studies and with the schism between quantitative and qualitative methods. This book argues the case for combining multiple research methods, and provides much-needed practical guidance for researchers who want to use this mixed-methods approach. The authors believe that all research has an over-arching logic and that, within this, the fruitful combination of quantitative and qualitative methods is possible. They develop the idea of the 'new' education and social researcher, for whom the combination of approaches is a representation of a diverse skills base, rather than a matter of ideological or theoretical allegiance. The book outlines and evaluates methods that are currently used, and looks at combining different methods across and within studies, including complex interventions, Bayesian approaches, new

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political arithmetic, triangulation, life histories and design studies. It offers a radical, new and very simple way of working with numbers. Drawing on examples across the social sciences, this book is key reading for undergraduate and postgraduate students in Education and social science courses with a research element, as well as academics and professionals undertaking research projects.

What are the fundamental elements of good quantitative and qualitative research? What are the strengths and weaknesses of each approach? What does research offer early childhood education? Are quantitative and qualitative approaches compatible? This book presents the research process and its components in a straightforward, easily accessible manner. Using real examples from early childhood education, authors William L. Goodwin and Laura D. Goodwin "bring to life" for the first time the various methods of research and how they may be studied and applied. They explore the major aspects of both quantitative and qualitative paradigms and techniques, stressing the compatibility and complementary nature of the two approaches that are so often seen as mutually exclusive if not downright contradictory.

This informal and highly readable text helps students acquire the knowledge they need to conduct educational research and evaluate published research. Educational Research introduces students

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to the fundamental logic of empirical research and explores the sources of research ideas. Detailed descriptions guide students through the design and implementation of actual research studies. One of the strongest features of this book is its focus on both quantitative and qualitative research. While quantitative research strategies are covered extensively, various qualitative approaches such as ethnography, historical methods, phenomenology, grounded theory, and case studies are also discussed. The authors show students how to prepare a proposal for submission to an Institutional Review Board and present detailed coverage of the key elements of research, including sampling techniques, ethical considerations, data collection methods, measurement, judging validity, experimental and nonexperimental methods, descriptive and inferential statistics, qualitative data analysis, and report preparation.

This major work captures cutting-edge and seminal practice from around the world in quantitative research in education, as well as looking back at some of the classic papers that have changed the way we work forever. It encompasses innovations in secondary analysis, surveys, experiments, statistical modeling, and sampling over thirty years. It showcases the methodological side of such innovations alongside reports of substantive results of great significance for educational policy and practice that emerge when using them.

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A classic in its field, *Research Methods in Education* retains the clear, concise writing style and organization that has made the text so popular. It has been updated with a new chapter on evaluating research papers, additional information on computers and software used in research, and a data disk consisting of three data sets that accompanies the text.

Research Methods in Education helps students evaluate research literature as well as master research methodology. It emphasizes the rationale for commonly used research procedures and their applications. The nature of educational research is outlined and the steps in the research process are clearly defined. Because identification of a research problem is so important, the entire second chapter is devoted to this topic. The text is broad in scope covering both quantitative and qualitative research methodologies as well as sampling designs, measurement, data collection, preparation of data sets for computer analysis, statistical procedures, and reports. *Research Methods in Education* gives students a solid understanding of all the elements of research.

Encompasses innovations in survey and experimental research and will showcase both the methodological side of such innovations alongside substantive issues in education itself.

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