Single Case Research Designs In Educational And Community Settings

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Offers a thoroughly revised, comprehensive A to Z compilation of authoritative information on the education of those with special needs. This book is a practical resource designed for clinicians, researchers, and advanced students who wish to learn about single-case research designs. It covers the theoretical and methodological underpinnings of single-case designs, as well as their practical application in the clinical and research neurorehabilitation setting. The book briefly traces the history of single-case experimental designs (SCEDs); outlines important considerations in understanding and planning a scientifically rigorous single-case study, including internal and external validity; describes prototypical single-case designs (withdrawal-reversal designs and the medical N-of-1 trial, multiple-baseline designs, alternating-treatments designs, and changing-criterion designs) and required features to meet evidence standards, threats to internal validity, and strategies to address them; addresses data evaluation, covering visual analysis of graphed data, statistical...
techniques, and clinical significance; and provides a practical ten-step procedure for implementing single-case methods. Each chapter includes detailed illustrative examples from the neurorehabilitation literature. Novel features include: A focus on the neurorehabilitation setting, which is particularly suitable for single-case designs because of the complex and often unique presentation of many patients/clients. A practical approach to the planning, implementation, data analysis, and reporting of single-case designs. An appendix providing a detailed summary of many recently published SCEDs in representative domains in the neurorehabilitation field, covering basic and instrumental activities of daily living, challenging behaviours, disorders of communication and cognition, mood and emotional functions, and motor-sensory disabilities. It is valuable reading for clinicians and researchers in several disciplines working in rehabilitation, including clinical and neuropsychology, education, language and speech pathology, occupational therapy, and physical therapy. It is also an essential resource for advanced students in these fields who need a textbook for specialised courses on research methodology and use of single-case design in applied clinical and research settings. This book is written for student researchers, practitioners, and university faculty who are interested in answering applied research questions and objectively evaluating educational and clinical practices. The basic tenet of single-subject research methodology is that the individual is of primary importance and that each individual study participant serves as his or her own control. It is because of this focus on the individual that clinicians and educators have been using single-subject research designs for over 40 years to answer applied research questions. Although the methodology has its roots in behavioral psychology and applied behavioral analysis, it has been used by applied researchers across a variety of disciplines such as special education, speech and communication sciences, language and literacy, therapeutic recreation, occupational therapy, and social work. Key features include the following: Applied Focus – More than any other text, this one focuses on the nuts and bolts of how to use single-subject research in constructing one’s research project or in evaluating one’s professional practice. Numerous and Varied Examples – The book abounds in examples from special education and other disciplines and populations within the applied research literature. Reader Friendly – The text is written in a reader friendly style, features sample data sheets and graphic displays, and includes detailed guidelines for conducting visual analysis of graphic data. Expertise – The author’s long and distinguished career in teaching single-subject research is augmented in this book by contributions from other experts in the field. The Sixth Edition of Robert K. Yin’s bestseller provides a complete portal to the world of case study research. Offering comprehensive coverage of the design and use of the case study method in addition to an integration of applications, the book gives readers access to exemplary case studies drawn from a wide variety of academic and applied fields. The integration of applications will enable users to see more directly how concrete case studies can implement the principles of case study research methods. Thanks to remarkable methodological and statistical advances in recent years, Single-Case design (SCD) research has become a viable and often essential option for researchers in applied psychology, education, and related fields. This text is a compendium of information
and tools for researchers considering SCD research, a methodology in which one or several participants (or other units) comprise a systematically-controlled experimental intervention study. SCD is a highly flexible method of conducting applied intervention research where it is not feasible or practical to collect data from traditional groups of participants. Initial chapters lay out the key components of SCDs, from articulating dependent variables to documenting methods for achieving experimental control and selecting an appropriate design model. Subsequent chapters show when and how to implement SCDs in a variety of contexts and how to analyze and interpret results. Authors emphasize key design and analysis tactics, such as randomization, to help enhance the internal validity and scientific credibility of individual studies. This rich resource also includes in-depth descriptions of large-scale SCD research projects being undertaken at key institutions; practical suggestions from journal editors on how to get SCD research published; and detailed instructions for free, user-friendly, web-based randomization software. Practical Approaches to Applied Research and Program Evaluation for Helping Professionals is a comprehensive textbook that presents master's-level counseling students with the skills and knowledge they need to successfully evaluate the effectiveness of mental health services and programs. Each chapter, aligned with 2016 Council for Accreditation of Counseling and Related Educational Programs (CACREP) standards, guides counseling students through study design and evaluation fundamentals that will help them understand existing research and develop studies to best assess their own applied research questions. Readers will learn the basics of research concepts as applied to evaluative tasks, the art of matching evaluative methods to questions, specific considerations for practice-based evaluative tasks, and practical statistical options matched to practice-based tasks. Readers can also turn to the book's companion website to access worksheets for practitioner and student planning exercises, spreadsheets with formulas for basic data analysis, a sample database, PowerPoint outlines, and discussion questions and activities aligned to each chapter. Research is vital in moving the field of family therapy forward, but the myriad of possibilities inherent in working with systems and individuals can overwhelm even the most seasoned researcher. Advanced Methods in Family Therapy Research is the best resource to address the day-to-day questions that researchers have as they investigate couples and families, and the best source for learning long-term theory and methodology. The contributors of this volume share their wisdom on a wide variety of topics including validity concerns, measuring interpersonal process and relational change, dyadic data analysis (demonstrated through a sample research study), mixed methods studies, and recruitment and retention. The volume contains one of the most detailed descriptions of data collections and covers interviewing, using questionnaires, and observing brain activity. Also addressed are suggestions to meaningfully reduce cultural bias, to conduct ethical research, and, in the Health Services Research chapter, to examine interventions for clients in various income brackets. A separate, ground-breaking chapter also addresses psychophysiological research in a couple and family therapeutic context. As an added benefit, readers will learn how to become informed consumers of journal articles and studies, how to produce quality, publishable research, and how to write fundable grant proposals.
Each chapter provides a clear and detailed guide for students, researchers, and professionals, and as a whole Advanced Methods in Family Therapy Research advances the field by teaching readers how to provide evidence that marriage and family therapy not only relieves symptoms, but also effects behavioral change in all family members. "I wholeheartedly invite counselor trainees and counselors into this journey of growing the research component of their professional identity Flynn and his colleagues prepare counselor trainees and counselors for this journey well and guide them carefully toward researcher competency. In an approachable and developmentally appropriate manner, they highlight for the profession the value of research and how it can be conducted." - Danica G. Hays, PhD American Counseling Fellow Professor and Executive Associate Dean University of Nevada, Las Vegas

Research Design for the Behavioral Sciences fills an important gap for the helping professions by offering a blueprint for advanced concepts and an applied approach to understanding quantitative, qualitative, and mixed methods research design. This graduate-level text seamlessly weaves together the philosophy, science, and practical application of the most common methodological frameworks in practice. Advanced research design concepts are presented through clear and in-depth blueprints, applied case studies, myriad examples, and helpful learning activities. Written in detailed yet accessible language, this text describes the foundations of behavioral science research. The authors explore research-based philosophical integration, along with the technical application of every tradition. Through this philosophical and pragmatic approach, students will be able to attain a well-rounded and comprehensive understanding of behavioral science research. This text provides students with the opportunity to reach a greater level of research efficacy though the inclusion of methodological procedures, data analysis methods, reliability/validity standards, ethics, and directions on how to increase the rigor of each approach to research. Instructor resources include an instructor's manual, learning activities, test bank, and PowerPoints. Purchase includes digital access for use on most mobile devices and computers. Key Features: Provides clear, detailed, and contextually accurate examples of writing, quantitative, qualitative, and mixed methods procedures Reviews the paradigmatic hierarchy of each research tradition along with key analytic features in detail Delivers instructions for enhancing the methodological rigor of each approach Analyses methodology-specific multicultural issues Demonstrates the application of a wide range of research methodologies with case studies Reviews the trends and history in research for counseling, psychology, social work, and marriage and family therapy Offers comprehensive instructor resources including manual, learning activities, test bank, and PowerPoint slides Single-Case Methods in Clinical Psychology: A Practical Guide provides a concise and easily-accessible introduction to single-case research. This is a timely response to the increasing awareness of the need to look beyond randomised controlled trials for evidence to support best practice in applied psychology. The book covers the issues of design, the reliability and validity of measurement, and provides guidance on how to analyse single-case data using both visual and statistical methods. Single-case designs can be used to investigate an individual's response to psychological intervention, as well as to contribute to larger scale research projects. This book illuminates the
common principles behind these uses. It describes how standardised measures can be used to evaluate change in an individual and how to develop idiographic measures that are tailored to the needs of an individual. The issue of replication and generalising beyond an individual are examined, and the book also includes a section on the meta-analysis of single-case data. The critical evaluation of single-case research is examined, from both the perspective of developing quality standards to evaluate research and maintaining a critical distance in reviewing one's own work.

Single Case Methods in Clinical Psychology will provide valuable guidance to postgraduate psychologists training to enter the professions of clinical, health and counselling psychology and is likely to become a core text on many courses. It will also appeal to clinicians seeking to answer questions about the effectiveness of therapy in individual cases and who wish to use the method to further the evidence-base for specific psychological interventions. Single Case Methods in Clinical Psychology: A Practical Guide provides a concise and easily-accessible introduction to single-case research. This is a timely response to the increasing awareness of the need to look beyond randomised controlled trials for evidence to support best practice in applied psychology. The book covers the issues of design, the reliability and validity of measurement, and provides guidance on how to analyse single-case data using both visual and statistical methods. Single-case designs can be used to investigate an individual’s response to psychological intervention, as well as to contribute to larger scale research projects. This book illuminates the common principles behind these uses. It describes how standardised measures can be used to evaluate change in an individual and how to develop idiographic measures that are tailored to the needs of an individual. The issue of replication and generalising beyond an individual are examined, and the book also includes a section on the meta-analysis of single-case data. The critical evaluation of single-case research is examined, from both the perspective of developing quality standards to evaluate research and maintaining a critical distance in reviewing one's own work. Single Case Methods in Clinical Psychology will provide valuable guidance to postgraduate psychologists training to enter the professions of clinical, health and counselling psychology and is likely to become a core text on many courses. It will also appeal to clinicians seeking to answer questions about the effectiveness of therapy in individual cases and who wish to use the method to further the evidence-base for specific psychological interventions.
technology management, security issues, emergency and disaster management, social and health services, infrastructure, public transportation, and transforming the work of government. This study guide for Gregory J. Privitera’s best-selling Research Methods for the Behavioral Sciences, Third Edition includes a review of chapter learning objectives, chapter summaries, and tips and cautions. To help students practice their skills, the guide offers quizzes and exercises accompanied by answers keys; SPSS in Focus exercises with general instructions complement those in Privitera’s main text. INSTRUCTORS: Bundle the student study guide with Privitera’s core text, Research Methods for the Behavioral Sciences, Third Edition, for only $5 more! Bundle ISBN: 978-1-5443-7100-9

Students often struggle with conceptualizing the most appropriate research design, before they begin collecting data and answering their research question. This book presents quantitative, qualitative, and mixed methods research designs in education and the social and behavioral sciences using consistent terminology, and in a way that students can understand and apply in their own investigations. The book helps students conceptualize, construct, test, problem solve, and acquire knowledge, through a wealth of visual aids and real-world examples. It is an ideal text for coursework and also a reference in the field. The 4th edition of this extensive text is an outstanding resource prepared by nurses (and a librarian) for nurses. In a structured and helpful style it presents thousands of items from the literature - published papers, reports, books and electronic resources - as a clear, accessible, and most of all useful collection. The efforts to signpost and lead the reader to the sought-for information are effective and well-conceived, and the "How to use this book" section is remarkably simple: the book should be found in every nursing and health library, every research institute and centre, and close to many career researchers' desks' - RCN Research

This latest edition of Resources for Nursing Research provides a comprehensive bibliography of sources on nursing research, and includes references for books, journal papers and Internet resources. Designed to act as a 'signpost' to available literature in the area, this Fourth Edition covers the disciplines of nursing, health care and the social sciences. Entries are concise, informative and accessible, and are arranged under three main sections: 'Sources of Literature' covers the process of literature searching, including using libraries and other tools for accessing literature; 'Methods of Inquiry' includes an introduction to research, how to conceptualize and design nursing and health research, measurement and data collection, and the interpretation and presentation of data; 'The Background to Research in Nursing' encompasses the development of nursing research; the profession's responsibilities; the role of government; funding; research roles and careers; and education for research. Fully revised and updated, the Fourth Edition includes just under 3000 entries, of which 90% are new. It has extensive coverage of US, UK literature and other international resources. This new edition will be an essential guide for all those with an interest in nursing research, including students, teachers, librarians, practitioners and researchers. Single Subject Designs in Biomedicine draws upon the rich history of single case research within the educational and behavioral research settings and extends the application to the field of biomedicine. Biomedical illustrations are used to demonstrate the processes of...
designing, implementing, and evaluating a single subject design. Strengths and limitations of various methodologies are presented, along with specific clinical areas of application in which these applications would be appropriate. Statistical and visual techniques for data analysis are also discussed. The breadth and depth of information provided is suitable for medical students in research oriented courses, primary care practitioners and medical specialists seeking to apply methods of evidence practice to improve patient care, and medical researchers who are expanding their methodological expertise to include single subject designs. Increasing awareness of the utility in the single subject design could enhance treatment approach and evaluation both in biomedical research and medical care settings. This title is directed primarily towards health care professionals outside of the United States. It has been written by nurses for nurses and is research-minded, conceptually and theoretically up-to-date and student-centred. It is a comprehensive introduction to nursing research that will allow readers to build up their understanding of the research process and develop confidence in its practical application. Text supported by examples from ‘real life’ research International perspective on nursing research Comprehensive coverage including established and innovative designs and methods Language learning research aims to describe and fully explain how and why language learning takes place, but can fall short of its stated purpose. Systematic, rigorous research is needed if the growing field of language learning is to progress methodically. This book demonstrates and fully explains such a methodology. Given that research in language acquisition yields practical pedagogical implications, it is crucial that it is rigorous and accurate. This book offers a quantitative research methodology that relies on statistical analysis in order to make inferences and conclusions about language learning. Experimental research aims to understand differences between or within groups of learners under manipulated environments. It requires strict control of conditions, enabling interpretations with a low factor of error. Aek Phakiti provides step-by-step guidelines and underlying principles, epistemology and methodology, in a book that is essential for advanced students of language acquisition and language and education. Providing a complete portal to the world of case study research, the Fourth Edition of Robert K. Yin’s bestselling text Case Study Research offers comprehensive coverage of the design and use of the case study method as a valid research tool. This thoroughly revised text now covers more than 50 case studies (approximately 25% new), gives fresh attention to quantitative analyses, discusses more fully the use of mixed methods research designs, and includes new methodological insights. The book’s coverage of case study research and how it is applied in practice gives readers access to exemplary case studies drawn from a wide variety of academic and applied fields. Key Features of the Fourth Edition Highlights each specific research feature through 44 boxed vignettes that feature previously published case studies Provides methodological insights to show the similarities between case studies and other social science methods Suggests a three-stage approach to help readers define the initial questions they will consider in their own case study research Covers new material on human subjects protection, the role of Institutional Review Boards, and the interplay between obtaining IRB approval...
and the final development of the case study protocol and conduct of a pilot case.
Includes an overall graphic of the entire case study research process at the beginning of the book, then highlights the steps in the process through graphics that appear at the outset of all the chapters that follow.
Offers in-text learning aids including “tips” that pose key questions and answers at the beginning of each chapter, practical exercises, endnotes, and a new cross-referencing table.

The use of case studies to build and test theories in political science and the other social sciences has increased in recent years. Many scholars have argued that the social sciences rely too heavily on quantitative research and formal models and have attempted to develop and refine rigorous methods for using case studies.
This text presents a comprehensive analysis of research methods using case studies and examines the place of case studies in social science methodology. It argues that case studies, statistical methods, and formal models are complementary rather than competitive.
The book explains how to design case study research that will produce results useful to policymakers and emphasizes the importance of developing policy-relevant theories.
It offers three major contributions to case study methodology: an emphasis on the importance of within-case analysis, a detailed discussion of process tracing, and development of the concept of typological theories.
Case Studies and Theory Development in the Social Sciences will be particularly useful to graduate students and scholars in social science methodology and the philosophy of science, as well as to those designing new research projects, and will contribute greatly to the broader debate about scientific methods.

Educational Research is a highly readable text that provides students with a clear and in-depth understanding of the different kinds of research—including technology-based—that are used in education today. The text introduces students 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 with a balanced examination of quantitative, qualitative, and mixed research, serving as one of the book’s strongest features.
While quantitative research strategies are covered extensively, the text also discusses various qualitative approaches such as ethnography, historical methods, phenomenology, grounded theory, and case studies.
The authors present detailed, step-by-step coverage of the key elements of research, including sampling techniques, ethical considerations, data collection methods, measurement, judging validity, experimental and non-experimental methods, descriptive and inferential statistics, qualitative data analysis, and report preparation.
This book focuses on one important aspect of psychological research -- the intensive study of people measured one or more at a time. Some important historical material is detailed in several chapters making a strong connection to previous material in psychology. Several contributors present important details on classical and novel methods to study behavior over time, and they do so in the context of appropriate statistical methods. This appropriately reflects the growing interest in examining dynamic behaviors by objective measurement. Key experimental design principles are expertly stated, reflecting the growing interest in studying the...
individual course of development for invariants in behaviors, including some unusual constructs such as cycles and punctuated equilibria. This book also deals with practical contemporary problems in psychology and documents the increased possibility of using clinical research tools. Taken as a whole, this volume is filled with interesting historical points, informative mathematical and statistical analyses, and practical methods. It is the only book addressing the issues of meta-analysis, cyclicity, and confounds to visual inspection of single subject data that considers ways in which statistical software can aid in overcoming these constraints. Single Case Research Methodology, 3rd Edition presents a thorough, technically sound, user-friendly, and comprehensive discussion of single case research methodology. This book can serve as a detailed and complex reference tool for students, researchers, and practitioners who intend to conduct single case research design studies; interpret findings of single case design studies; or write proposals, manuscripts, or reviews of single case methodology research. The authors present a variety of single case research studies with a wide range of participants, including preschoolers, K-12 students, university students, and adults in a variety of childcare, school, clinical, and community settings, making the book relevant across multiple disciplines in social, educational, and behavioral science including special and general education; school, child, clinical, and neuropsychology; speech, occupational, recreation, and physical therapy; and social work. Originally published in 1992, the editors of this volume fulfill three main goals: to take stock of progress in the development of data-analysis procedures for single-subject research; to clearly explain errors of application and consider them within the context of new theoretical and empirical information of the time; and to closely examine new developments in the analysis of data from single-subject or small n experiments. To meet these goals, this book provides examples of applicable single-subject research data analysis. It presents a wide variety of topics and perspectives and hopes that readers will select the data-analysis strategies that best reflect their methodological approaches, statistical sophistication, and philosophical beliefs. These strategies include visual analysis, nonparametric tests, time-series experiments, applications of statistical procedures for multiple behaviors, applications of meta-analysis in single-subject research, and discussions of issues related to the application and misapplication of selected techniques. A thorough guide to research design from a world-renowned clinical and child psychologist. This inaugural issue is devoted to exploring measurement, research design, and statistics issues in six subdisciplines of exercise and sport science. Originally presented at the Eighth Measurement and Evaluation Symposium, all papers in this issue reflect the work of many renowned measurement specialists and content experts in their respective fields. The articles discuss the following topics: * standards of assessment quality for physical educators and the problem of providing adequate assessment without adequate resources; * the importance of properly conceptualizing and defining appropriate research questions as the "source and solution" for measurement and design issues in reference to motor learning/control and sport and exercise psychology; * the study of individuals -- single-subject and other small-sample designs -- in contrast to the more traditional study of groups; and * the importance of computing and reporting statistical power in research. This book
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provides practical guidance on research methods and designs that can be applied to Complex Dynamic Systems Theory (CDST) research. It discusses the contribution of CDST to the field of applied linguistics, examines what this perspective entails for research and introduces practical methods and templates, both qualitative and quantitative, for how applied linguistics researchers can design and conduct research using the CDST framework. Introduced in the book are methods ranging from those in widespread use in social complexity, to more familiar methods in use throughout applied linguistics. All are inherently suited to studying both dynamic change in context and interconnectedness. This accessible introduction to CDST research will equip readers with the knowledge to ensure compatibility between empirical research designs and the theoretical tenets of complexity. It will be of value to researchers working in the areas of applied linguistics, language pedagogy and educational linguistics and to scholars and professionals with an interest in second/foreign language acquisition and complexity theory.

Research Methods for the Behavioral Sciences, Third Edition employs a problem-focused approach to present a clear and comprehensive introduction to research methods. Award-winning teacher, author, and advisor Gregory J. Privitera fully integrates the research methods decision tree into the text to help students choose the most appropriate methodology for the research question they are seeking to answer. Speaking to readers directly, Privitera empowers students to view research methods as something they can understand and apply in their daily lives. INSTRUCTORS: Research Methods for the Behavioral Sciences, Third Edition is available with a complete teaching and learning package! Contact your rep to request a demo and answer any questions. SAGE coursepacks FREE! SAGE coursepacks makes it easy to import our quality instructor and student resource content into your school’s learning management system (LMS). Intuitive and simple to use, SAGE coursepacks allows you to customize course content to meet your students’ needs. Learn more ” SAGE edge FREE! SAGE edge offers students a robust online environment with an impressive array of learning resources. Learn more ” Student Study Guide Bundle with the Student Study Guide With IBM® SPSS® Workbook for Research Methods for the Behavioral Sciences, Third Edition for only $5 more (Bundle ISBN: 978-1-5443-7100-9). Learn more ” Single Case Research in Schools addresses and examines the variety of cutting-edge issues in single case research (SCR) in educational settings. Featuring simple and practical techniques for aggregating data for evidence-based practices, the book delves into methods of selecting behaviors of interest and measuring them reliably. The latter part of Single Case Research in Schools is devoted to a step-by-step model of using SCR to evaluate practices in schools. This includes considerations such as measurement, date collection, length of phases, design consideratoins, calculating effect size and reliability of measures. Research and clinical work are often perceived as opposites in the field of music therapy. This book shows, for the first time, how these two areas of work can creatively complement one another, proving beneficial to both disciplines. Each chapter is written by a leading researcher and practitioner in the field, and the book covers a wide spectrum of approaches within different settings. Beginning with methodological and musicological approaches to case studies, the book then moves on to more specific topics such as the use of case studies
in an interactive play setting and in music therapy with the elderly. Later chapters explore theoretical aspects, looking at a worked example of music and progressive change during therapy, and how case study designs can be used in practice. A must for all professionals working and studying within the music therapy area, this is also an informative and useful book for health researchers. Single Case Experimental Designs provides a clear and comprehensive introduction to the use of single case experimental designs. The purpose of this book is to provide a comprehensive sourcebook on single case experimental designs with practical guidelines for their use in a range of research and clinical settings. It is suitable for use as a textbook for a course on research methodology or clinical assessment and treatment, or as a desk reference for seasoned researchers and practicing clinicians. Research Methods is an introduction to the importance of scientific research in everyday life and uses familiar examples to keep students engaged. The text analyzes controversies in psychology to stimulate student interest while explaining crucial methodological concepts. It presents ethical issues related to research, as well as social and cultural factors that might affect it, and provides a comprehensive introduction to a wide variety of methodologies. Through this book, students will learn how to generate research questions and select appropriate methodology, as well as to write a successful research report. In RESEARCH METHODS FOR THE BEHAVIORAL SCIENCES, 6th Edition, Fredrick J Gravetter and Lori-Ann B. Forzano help students see how interesting and exciting experimental and nonexperimental research can be. The text leads students through the research process from start to finish, including tips and strategies for generating research ideas and hypotheses, selecting measures and participants, and designing research. This step-by-step approach emphasizes the decisions researchers must make at each stage of the process. The authors avoid a cookbook presentation of just the facts by linking terminology with applied concepts; their lecture in a book style emphasizes clear explanations of topics. Research examples present topics of particular interest to students, and content throughout the book reflects current APA guidelines.
technically sound, user-friendly, and comprehensive discussion of single case research methodology. This book can serve as a detailed and complex reference tool for students, researchers, and practitioners who intend to conduct single case research design studies; interpret findings of single case design studies; or write proposals, manuscripts, or reviews of single case methodology research. The authors present a variety of single case research studies with a wide range of participants, including preschoolers, K-12 students, university students, and adults in a variety of childcare, school, clinical, and community settings, making the book relevant across multiple disciplines in social, educational, and behavioral science including special and general education; school, child, clinical, and neuropsychology; speech, occupational, recreation, and physical therapy; and social work. To request a free 30-day online trial to this product, visit www.sagepub.com/freetrial Research design can be daunting for all types of researchers. At its heart it might be described as a formalized approach toward problem solving, thinking, and acquiring knowledge—the success of which depends upon clearly defined objectives and appropriate choice of statistical tools, tests, and analysis to meet a project’s objectives. Comprising more than 500 entries, the Encyclopedia of Research Design explains how to make decisions about research design, undertake research projects in an ethical manner, interpret and draw valid inferences from data, and evaluate experiment design strategies and results. Two additional features carry this encyclopedia far above other works in the field: bibliographic entries devoted to significant articles in the history of research design and reviews of contemporary tools, such as software and statistical procedures, used to analyze results. Key Features Covers the spectrum of research design strategies, from material presented in introductory classes to topics necessary in graduate research Addresses cross- and multidisciplinary research needs, with many examples drawn from the social and behavioral sciences, neurosciences, and biomedical and life sciences Provides summaries of advantages and disadvantages of often-used strategies Uses hundreds of sample tables, figures, and equations based on real-life cases Key Themes Descriptive Statistics Distributions Graphical Displays of Data Hypothesis Testing Important Publications Inferential Statistics Item Response Theory Mathematical Concepts Measurement Concepts Organizations Publishing Qualitative Research Reliability of Scores Research Design Concepts Research Designs Research Ethics Research Process Research Validity Issues Sampling Scaling Software Applications Statistical Assumptions Statistical Concepts Statistical Procedures Statistical Tests Theories, Laws, and Principles Types of Variables Validity of Scores The Encyclopedia of Research Design is the perfect instrument for new learners as well as experienced researchers to explore both the original and newest branches of the field. This practical, user-friendly textbook provides background knowledge, basic concepts, and an understanding of relevant issues related to applied behavior analysis -- and specifically to single subject research designs. Applications to action research and classroom data use and interventions are also included. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Single-Case Research Methods in Sport and Exercise Psychology is the first book to fully explain single-case research in the
context of sport and exercise. Starting with first principles, the book offers a comprehensive introduction to the single-case research process, from study design to data analysis and presentation. Including case studies and examples from across sport and exercise psychology, the book provides practical guidance for students and researchers and demonstrates the advantages and common pitfalls of single-case research for anybody working in applied or behavioural science in a sport or exercise setting. This text explains research design, implementation, analysis and assessment criteria with a focus on specific procedures unique to sport management.

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