

Introduction To Experimental Psychology

This edition continues to emphasize the mutual facilitation of pure and applied research and the wise application of effective research methods to benefit society. Strategies for the solution of societal problems are specially developed in Chapters 10 and 11. Psychology is going through changes and is in danger of losing the methodological sophistication that has propelled it to the forefront of social and biological sciences. Psychologists are leaders in business, industry, government, politics, and academia, and their research findings on topics important for the public are cited daily in the media. However, that preeminence may erode as many psychologists neglect the study and use of sound research methodology. This book has always attempted to develop a broad perspective about where sound psychological research fits within areas of public interest as well as more generally within science. On this point some instructors whose students might be more interested in quasi-experimental research than in experimental research could assign Chapter 11 early in the course, perhaps immediately after Chapter 6, which introduces experiments.

An Introduction to Experimental Psychology Cambridge University Press

This text focuses on the experimental methods and the associated terminology encountered in the research literature of psychology. Initially, the content is kept simple, so as not to distract from the information on research technique and philosophy. Interesting psychological questions from well researched areas are then examined in detail, permitting a fuller discussion of the problems encountered in specific paradigms. It is in this fashion that the book offers both methods and content. Unique features of this text include: * a detailed discussion of the process of theorizing, coupled with a close examination of psychological constructs, offers the reader an opportunity to see how psychologists think about, develop, and modify their theories, and the part played by research in changing explanations of behavior. * Although it is common for psychologists to be self-conscious in their reasoning, it is uncommon to see an analysis of the logic that they use to draw conclusions. Presenting material that is rarely verbalized but readily acknowledged by experienced researchers, the text contains an overt analysis of the logic of drawing conclusions from research. * Instructors are given a choice among 15 chapters to focus on or combine to suit the course's concentration. For example, instructors have the option of focusing on experimental psychology or a broad-based course including material on research methods in experimental, social, clinical, and applied psychology. * Courses in experimental psychology or research methods are required for every psychology major. Statistical understanding is vital for this curriculum, and this text contains a comprehensive chapter on statistics making it ideal for courses that combine statistics and experimental methods. Other important coverage includes: * an all-inclusive summary of the material found in an introductory statistics class. Although courses in research methods and experimental psychology usually have a statistics prerequisite, the students rarely remember the material when entering the research course. This text provides the instructor with the option of simply assigning the statistics information as a review, rather than repeating the lectures. If the course requirements are such as to necessitate a joint statistics and research methods course -- with the instructor lecturing on both topics -- this text could serve as the single text for the course. A helpful discussion -- accompanied by a valuable table -- demonstrates how to choose an appropriate statistic. All necessary formulas and other familiar statistical procedures -- illustrating computational steps -- are also featured. * a detailed discussion of how to develop tests for use in research. Aside from the value of this information for any researcher, it can be particularly helpful to students who are required to develop original experiments. * an elaborate discussion of methodological issues in outcome research, using smoking cessation and weight reduction programs as examples. Test bank disks for Experimental Methods in Psychology, -- free to adopters -- consist of an average of six short-answer, 11 fill-in-the-blank, and 11 multiple-choice questions for each chapter. The files are in both ASCII and Word-for-Windows formats.

This text is about doing science and the active process of reading, learning, thinking, generating ideas, designing experiments, and the logistics surrounding each step of the research process. In easy-to-read, conversational language, Kim MacLin teaches students experimental design principles and techniques using a tutorial approach in which students read, critique, and analyze over 75 actual experiments from every major area of psychology. She provides them with real-world information about how science in psychology is conducted and how they can participate. Recognizing that students come to an experimental design course with their own interests and perspectives, MacLin covers many subdisciplines of psychology throughout the text, including IO psychology, child psychology, social psychology, behavioral psychology, cognitive psychology, clinical psychology, health psychology, educational/school psychology, legal psychology, and personality psychology, among others. Part I of the text is content oriented and provides an overview of the principles of experimental design. Part II contains annotated research articles for students to read and analyze. Classic articles have been retained and 11 new ones have been added, featuring contemporary case studies, information on the Open Science movement, expanded coverage on ethics in research, and a greater focus on becoming a better writer, clarity and precision in writing, and reducing bias in language. This edition is up to date with the latest APA Publication Manual (7th edition) and includes an overview of the updated bias-free language guidelines, the use of singular "they," the new ethical compliance checklist, and other key changes in APA style. This text is essential reading for students and researchers interested in and studying experimental design in psychology.

The Handbook of Research Methods in Experimental Psychology presents a comprehensive and contemporary treatment of research methodologies used in experimental psychology. Places experimental psychology in historical context, investigates the changing nature of research methodology, experimental design, and analytic procedures, and features research in selected content areas. Provides an excellent source of potential research ideas for advanced undergraduate and beginning graduate students. Illustrates the range of research methodologies used in experimental psychology. Contains contributions written by leading researchers. Now available in full text online via xreferplus, the award-winning reference library on the web from xrefer. For more information, visit www.xreferplus.com

Until recently, most psychological research was conducted using subject samples in close proximity to the investigators--namely university undergraduates. In recent years, however, it has become possible to test people from all over the world by placing experiments on the internet. The number of people using the internet for this purpose is likely to become the main venue for subject pools in coming years. As such, learning about experiments on the internet will be of vital interest to all research psychologists. Psychological Experiments on the Internet is divided into three sections.

Section I discusses the history of web experimentation, as well as the advantages, disadvantages, and validity of web-based psychological research. Section II discusses examples of web-based experiments on individual differences and cross-cultural studies. Section III provides readers with the necessary information and techniques for utilizing the internet in their own research designs. * Innovative topic that will capture the imagination of many readers * Includes examples of actual web based experiments

Experimental design is important enough to merit a book on its own, without statistics, that instead links methodology to a discussion of how psychologists can advance and reject theories about human behaviour. The objective of this book is to fulfil this role. The first four chapters lay the foundations of design in experimental psychology. The first chapter justifies the prominent role given to methodology within the discipline, whilst chapters two and three describe between-subject and within-subject designs. Chapter four compares and contrasts the traditional experimental approach with that of the

quasi-experimental, or correlational approach, concluding that the consequences of not recognizing the value of the latter approach can be far-reaching. The following three chapters discuss practical issues involved in running experiments. The first of these offers a comprehensive guide to the student researcher who wants to construct a good questionnaire, including a discussion of reliability and validity issues. The next chapter considers the basic tools of psychological research, whilst both discussing the theoretical problem of how a sample from a population is chosen and offering useful hints on the practical issue of finding adequate populations from which to select participants. The next chapter considers ethical practice within psychological research, written in large part so that psychology students will be better able to anticipate ethical problems in their studies before they occur. The final two chapters consider reporting and reading psychological papers. Chapter eight details what should and should not be included in a laboratory report. The contributors use their collective experience of marking numerous lab reports to highlight common errors and provide solutions. Finally, chapter nine describes the various elements of a journal article, including tips on how to get the best out of your journal reading.

This book provides an overview of cutting-edge methods currently being used in cognitive psychology, which are likely to appear with increasing frequency in coming years. Once built around univariate parametric statistics, cognitive psychology courses now seem deficient without some contact with methods for signal processing, spatial statistics, and machine learning. There are also important changes in analyses of behavioral data (e.g., hierarchical modeling and Bayesian inference) and there is the obvious change wrought by the advancement of functional imaging. This book begins by discussing the evidence of this rapid change, for example the movement between using traditional analyses of variance to multi-level mixed models, in psycholinguistics. It then goes on to discuss the methods for analyses of physiological measurements, and how these methods provide insights into cognitive processing. *New Methods in Cognitive Psychology* provides senior undergraduates, graduates and researchers with cutting-edge overviews of new and emerging topics, and the very latest in theory and research for the more established topics.

Primarily intended for the undergraduate and postgraduate students of psychology, this book will help understand the methodology of experiments and the basic concepts of experimental psychology. Since the experiments are described in detail with the help of purely hypothetical data, the readers will easily understand the procedure and the steps involved in each experiment. Complete reports of more than fifty experiments will certainly help understand the significance of each step in an experiment. The detailed description of experiments will also help in conceptualising relevant problems and designing appropriate experiments. Another feature is that, more than half of the experiments described in the book do not require sophisticated apparatus. Key Features

- Sample data are provided in each experiment.
- Theoretical background of experiments is sufficient and clear.
- Sample data are analysed with the help of statistical techniques.
- Language is lucid and easy to comprehend.
- Experiments on most of the topics have been covered.

Originally published during the early part of the twentieth century, the Cambridge Manuals of Science and Literature were designed to provide concise introductions to a broad range of topics. They were written by experts for the general reader and combined a comprehensive approach to knowledge with an emphasis on accessibility. *An Introduction to Experimental Psychology* by Charles S. Myers was first published in 1911 and reissued as this third edition in 1914. The volume discusses the typical research themes and methods of observation in experimental psychology at the time of publication.

Experimental Design and Statistics for Psychology: A First Course is a concise, straightforward and accessible introduction to the design of psychology experiments and the statistical tests used to make sense of their results. Makes abundant use of charts, diagrams and figures. Assumes no prior knowledge of statistics. Invaluable to all psychology students needing a firm grasp of the basics, but tackling of some of the topic's more complex, controversial issues will also fire the imagination of more ambitious students. Covers different aspects of experimental design, including dependent versus independent variables, levels of treatment, experimental control, random versus systematic errors, and within versus between subjects design. Provides detailed instructions on how to perform statistical tests with SPSS. Downloadable instructor resources to supplement and support your lectures can be found at www.blackwellpublishing.com/sani and include sample chapters, test questions, SPSS data sets, and figures and tables from the book.

"In 1946 I was faced with the problem of teaching a course in undergraduate experimental psychology with no available text seeming suitable for background reading. Therefore, I started to bring together certain materials to be mimeographed and issued to the students as a substitute for a text. These materials were revised and expanded from quarter to quarter until the present final draft was written. While I set up the objective of continuous unification of method and content, I must add quickly that I was unable to attain the objective completely. In mimeographed form the text has been used in a two-quarter course for which *Elementary Statistics* was a prerequisite, and in a year course where statistics was taught as an integral part of the methodology. I believe that the factual subject matter can be comprehended readily without a statistical knowledge, but a full appreciation of experimental design problems requires some statistical thinking." (PsycINFO Database Record (c) 2006 APA, all rights reserved)

Focusing on experimental methods, authors Anne Myers and Christine Hansen lead students step by step through the entire research process, from generating testable hypotheses to writing the research report. The major sections of the book parallel the major sections of a research report (Introduction, Method, Results, and Discussion), giving students the skills they'll need to design and conduct an experiment, analyze and interpret the research findings, and report those findings. Although the main focus is on experimentation, alternative approaches are discussed as important complements. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Kantowitz, Roediger, and Elmes, all prominent researchers, take an example-based approach to the fundamentals of research methodology. The text is organized by topic--such as research in human factors, learning, thinking, and problem solving--and the authors discuss and clarify research methods in the context of actual research conducted in these specific areas. This unique feature helps students connect the concepts of sound methodology with their practical applications. Carefully selected real-world examples allow students to see for themselves the issues and problems that can occur in conducting research. More importantly,

students develop a sense of how to anticipate and adjust for problems in their own research. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

First Published in 1999. Routledge is an imprint of Taylor & Francis, an informa company.

A clear introduction to human experimental psychology in a laboratory setting, this up-to-date textbook covers design and procedural methodology and features a broad overview of relevant research areas, with chapters on episodic and semantic memory; perception and attention; conditioning, learning, and motivation; and thinking and problem solving. A unique final chapter presents guidelines for writing the research report.

This volume, originally published in 1979, sponsored by the Psychonomic Society (the North American association of research psychologists), commemorates the centennial of experimental psychology as a separate discipline – dated from the opening of Wilhelm Wundt's laboratory at Leipzig in 1879. Each major research area is surveyed by distinguished experts, and the chapters treat historical background and progress, experimental findings and methods, critical theoretical issues, evaluations of the current state of the art, future prospects, and even practical and social relevance of the work. Writing in a lively style suitable for non-specialists, the authors provide a general introduction to the history of experimental psychology. Illustrated by many photographs of leading historical figures, this book blends history with methodology, findings with theory, and discussion of specific topics with integrated assessments of what has truly been accomplished in the first hundred years of experimental psychology.

"For some time past the lack of a Text-book on Experimental Psychology has been keenly felt. The literature of the subject is now so scattered and so profuse, that a student must have at his command a small library of books and periodicals if he wishes to pursue a course of independent reading. In endeavouring to supply this want, I do not attempt to offer a "systematic" Psychology. On the contrary, I assume that the student is already familiar with the elements of general psychology. He may have had the opportunity of attending an introductory course of lectures on the subject which were accompanied by demonstrations, and in that case he will have observed how artificial is the line of cleavage between general and experimental psychology. I assume, too, that he does not approach the detailed study of experimental psychology in ignorance of the general structure and functions of the nervous system. In the following pages I may appear at times to have laid undue stress on purely physiological and physical considerations in their relation to the problems of experimental psychology. But the ultimate object, which has influenced me throughout, has been to describe the of psychological experiment, and to set forth the most important results that have been obtained in this field of research"--Preface. (PsycINFO Database Record (c) 2010 APA, all rights reserved).

First published in 1925, this second volume of Dr Charles Myers' two-part textbook suggests practical experiments to test psychological phenomena.

A complete course in data collection and analysis for students who need to go beyond the basics. A true course companion, the engaging writing style takes readers through challenging topics, blending examples and exercises with careful explanations and custom-drawn figures ensuring the most daunting concepts can be fully understood.

"In writing this little book, I have tried to keep in mind the purpose of the series to which it belongs. Having selected various topics which may fairly be considered typical themes of research in Experimental Psychology, I have endeavoured to present them in such a form as will give the educated reader a general notion of the scope of the science and of the experimental methods it employs. Of course these various topics will not appeal in equal degrees to different interests"--Preface. (PsycINFO Database Record (c) 2010 APA, all rights reserved).

E-Prime®, the software suite of Psychology Software Tools, is used worldwide for designing and running custom psychology experiments. Aimed at students and researchers alike, this timely volume provides a much needed, down-to-earth introduction into the wide range of experiments that can be set up using E-Prime®. Many tutorials are provided to introduce the beginner and reacquaint the experienced researcher with constructing experiments typical for the broad field of psychological and cognitive science. Apart from explaining the basic structure of E-Prime® and describing how it suits daily scientific practice, this book also gently introduces programming via E-Prime's own language: E-Basic. The authors guide the readers through the software step by step, from an elementary level to an advanced level, enabling them to benefit from the enormous possibilities E-Prime® provides for experimental design.

To acquaint the student with the concepts and methods of laboratory science as they apply to psychology.

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