

Introduction To Psychological Science

An Introduction to Psychological Science

Written by experimental research expert, Dr. William J. Ray, *Research Methods for Psychological Science* introduces students to the principles and practice of conducting research in psychology in an engaging, story-telling format. Ray helps students understand how research increases our understanding of ourselves and our environment and how logic and best practices can increase our understanding of human behavior. Whether their future roles will be researchers, consumers of research, or informed citizens, students will learn the importance of developing testable hypotheses, how to evaluate new information critically, and the impact of research on ourselves and our society. Based on Ray's influential textbook, *Methods Toward a Science of Behavior and Experience*, the book offers up-to-date pedagogy, structure, and exercises to reinforce the student's learning experience.

Note: If you are purchasing an electronic version, MyPsychLab does not come automatically packaged with it. To purchase MyPsychLab, please visit www.mypsychlab.com or you can purchase a package of the physical text and MyPsychLab by searching for ISBN 10: 0133565211/ ISBN 13: 9780133565218. *An Introduction to Psychological Science* helps students view psychology as a practical, modern science-and gives them the tools to better understand their world. Organized around a scientific literacy model, the text's content and features encourage scientific inquiry, prompting students to ask a series of scientific-minded questions about each topic. All aspects of the book-the topics covered, learning objectives, quizzes, even the modular format-have been developed to enable students to categorize the

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overwhelming amount of information they encounter, and to ignite their interest in psychological science.

Help students become scientifically literate. An Introduction to Psychological Science helps students view psychology as a practical, modern science--and gives them the tools to better understand our world. Throughout the second edition, authors Krause, Corts, Smith and Dolderman continue to emphasize scientific literacy: the ability not only to define scientific terminology, but also to understand how it functions, to evaluate it critically, and to apply it to personal and societal matters. In addition to helping students master key course objectives, learning how to think scientifically will enable students to categorize the overwhelming amount of information they encounter, as well as ignite their interest in psychological science.

In its first edition this book successfully enabled readers, with little or no prior knowledge of computing or statistics, to develop reliable and valid tests and scales for assessment or research purposes. In this edition, the author has thoroughly updated the text to include new recent advances in computer software and provide information on relevant internet resources. The book contains detailed guidelines for locating and constructing psychological measures, including descriptions of popular psychological measures and step-by-step instructions for composing a measure, entering data and computing reliability and validity of test results. Advanced techniques such as factor analysis, analysis of covariance and multiple regression analysis are presented for the beginner. An Introduction to Psychological Tests and Scales provides a clear, concise and jargon-free primer for all those embarking in fieldwork or research analysis. It will be an invaluable tool for undergraduates and postgraduates in psychology and a useful text for students and professionals in related disciplines.

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"A unique and important resource, full of critical practical knowledge and technical details made readily accessible." - Tiffany Ito, University of Colorado at Boulder "A comprehensive and engaging guide to EEG methods in social neuroscience; Dickter and Kieffaber offer practical details for conducting EEG research in a social/personality lab, with a broad perspective on how neuroscience can inform psychology. This is a unique and invaluable resource - a must-have for scientists interested in the social brain." - David M. Amodio, New York University

Electroencephalography (EEG) has seen a dramatic increase in application as a research tool in the psychological sciences in recent years. This book provides an introduction to the technology and techniques of EEG in the context of social and cognitive neuroscience research that will appeal to investigators (students or researchers) wishing to broaden their research aims to include EEG, and to those already using EEG but wishing to expand their analytic repertoire. It can also serve as a textbook for a postgraduate course or upper-level undergraduate course in any area of behavioural neuroscience. The book provides an introduction to the theory, technology, and techniques of EEG data analysis along with the practical skills required to engage this popular technology. Beginning with a background in the neural origins and physical principles involved in recording EEG, readers will also find discussions of practical considerations regarding the recording of EEG in humans as well as tips for the configuration of an EEG laboratory. The analytic methods covered include event-related brain potentials (ERPs), spectral asymmetry, and time-frequency analyses. A conceptual background and review of domain-specific applications of the method is provided for each type of analysis. There's also comprehensive guided analysis for each analytic method that includes tutorial-style instruction and sample datasets. This book is perfect for

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advanced students and researchers in the psychological sciences and related disciplines who are using EEG in their research.

An up-to-date and scientific introduction to the science and practice of clinical psychology for undergraduate and graduate students.

This book describes the present status and the history of the International Union of Psychological Science (IUPsyS) -- the most representative international psychological body. The IUPsyS includes national psychological associations from 66 countries, with more joining every year, and it has formal relations with the United Nations, UNESCO, the World Health Organization, the International Council for Science, and the International Social Science Council. Many well known psychologists have played important roles in this international organization, and the text and many photographs bring the story to life. IUPsyS was organized formally at the 14th international Congress of Psychology at Stockholm in 1951, so the 27th International Congress of Psychology at Stockholm in 2000 marks a half-century of its existence. But the history of the IUPsyS goes back to the first International Congresses of Psychology, 1889, and to the International Congress Committee which foreshadowed the organization of the International Union. After describing the present status of the IUPsyS in Chapter 1, the book traces briefly the early development of scientific societies and organizations. Chapter 3 tells how the first International Congress of Psychology was organized in Paris in 1889 and what it accomplished. Successive international congresses and the growth of psychology during the next sixty years are treated in chapters 4-6. The founding and development of the International Union in the last half of the 20th Century are described in the remaining chapters. International Congresses organized by the IUPsyS have taken place

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regularly since 1951, and the IUPsyS has steadily gained in the scope and influence of its activities. The congresses, long restricted to western Europe and North America, became more representative geographically, moving to Moscow, Tokyo, Leipzig, Acapulco, and Sydney, with the 28th congress planned for Beijing in 2004. The history shows how the IUPsyS has become increasingly able to face the problems and opportunities of the 21st century.

The chapters in this volume are the edited versions of invited addresses to the XXVI International Congress of Psychology held in Montréal in August 1996. As one major goal of the Congress was to promote communication among specializations in scientific psychology, the speakers were asked to survey their research area and present their own work in a way that would be accessible to their colleagues in other areas. Another purpose of the meeting was to bring researchers together from different parts of the world, reflecting their different approaches to the scientific study of mind, brain, and behavior. Consequently, the eminent researchers who have written the twenty-six chapters included in the present volume were drawn from universities and research institutes in North America, Europe, Japan, Russia, Israel, and New Zealand. The chapters cover a range of topics in human and animal experimental psychology. The first section deals with psychobiological processes - the interplay of body and mind in determining intelligence, stress, and pain. The next five chapters address current issues in neuropsychology and neuroscience, including the neural correlates of attention and vision. A third section looks at learning processes in humans and animals, and a fourth deals with a range of topics in perception and cognition. The final five chapters take a developmental perspective, presenting theoretical and empirical analyses of the acquisition of perceptual and cognitive abilities. Overall, the collection illustrates the growing trend to break

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down traditional barriers between areas of experimental psychology; there are many instances of profitable interactions between researchers studying aspects of behavior and those studying the biological bases of these behaviors. The twenty-six chapters give an excellent overview of current research in scientific psychology.

The book provides an argument why realism is a viable metatheoretical framework for psychological science. By looking at some variations of realism such as scientific realism, critical realism, situational realism and Ferraris' new realism, a realist view of science is outlined that can feature as a metatheory for psychological science. Realism is a necessary correction for the mythical image of science responsible for and maintained by a number of dichotomies and polarities in psychology. Thus, the quantitative-qualitative dichotomy, scientist-practitioner polarity and positivist-constructionist opposition feed off and maintains a mythic image of science on levels of practice, methods and metatheory. Realism makes a clear distinction between ontology and epistemic access to reality, the latter which easily fits with softer versions of constructionism, and the former which grounds science in resistance and possibility, loosely translated as criticism. By taking science as a critical activity an issue such as the quantitative imperative loses its defining force as a hallmark of science - it provides epistemic access to certain parts of reality. In addition, essentially critical activities characteristic of various qualitative approaches may be welcomed as proper science. Academics, professionals and researchers in psychology would find value in situating their scholarly work in a realist metatheory avoiding the pitfalls of traditional methodologies and theories.

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or print supplements that may come packaged with the bound book. For courses in Introductory Psychology Help students become scientifically literate. Psychological Science: Modeling Scientific Literacy helps students view psychology as a practical, modern science—and gives them the tools to better understand our world. Throughout the second edition, authors Mark Krause and Daniel Corts continue to emphasize scientific literacy: the ability not only to define scientific terminology, but also to understand how it functions, to evaluate it critically, and to apply it to personal and societal matters. In addition to helping students master key course objectives, learning how to think scientifically will enable students to categorize the overwhelming amount of information they encounter, as well as ignite their interest in psychological science.

For courses in Introductory Psychology Help students become scientifically literate. An Introduction to Psychological Science helps students view psychology as a practical, modern science--and gives them the tools to better understand our world. Throughout the second edition, authors Krause, Corts, Smith and Dolderman continue to emphasize scientific literacy: the ability not only to define scientific terminology, but also to understand how it functions, to evaluate it critically, and to apply it to personal and societal matters. In addition to helping students master key course objectives, learning how to think scientifically will enable students to categorize the overwhelming amount of information they encounter, as well as ignite their interest in psychological science. An Introduction to Psychological Science, 2ce is also available via REVEL(tm), an immersive learning experience designed for the way today's students read, think, and learn.

This rigorous yet reader-friendly book reviews the state of the science on a broad range of

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psychological issues commonly encountered in the forensic context. The goal is to help professionals and students differentiate between supported and unsupported psychological techniques--and steer clear of those that may be misleading or legally inadmissible. Leading contributors focus on controversial issues surrounding recovered memories, projective techniques, lie detection, child witnesses, offender rehabilitation, psychopathy, violence risk assessment, and more. With a focus on real-world legal situations, the book offers guidelines for presenting scientific evidence accurately and effectively in courtroom testimony and written reports.

Psychological research can provide constructive explanations of key problems in the criminal justice system--and can help generate solutions. This state-of-the-art text dissects the psychological processes associated with fundamental legal questions: Is a suspect lying? Will an incarcerated individual be dangerous in the future? Is an eyewitness accurate? How can false memories be implanted? How do juries, experts, forensic examiners, and judges make decisions, and how can racial and other forms of bias be minimized? Chapters offer up-to-date reviews of relevant theory, experimental methods, and empirical findings. Specific recommendations are made for improving the quality of evidence and preserving the integrity of investigative and legal proceedings.

This comprehensive, ten volume reference work reflects the interdisciplinary influences on evolutionary psychology and serves as a major resource for its history, scientific contributors and theories. It draws on biology, cognitive science, anthropology, psychology, economics, computer science and paleoarchaeology to provide a multifaceted picture of behavioral adaptation in humans and how it adds to our academic and clinical understanding. Edited by a

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noted figure in evolutionary psychology, with many seminal and renowned contributors, this encyclopedia offers the full breadth of an area that is the forefront of behavioral thinking and investigation.

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Based on Francesca Happé's best-selling textbook, *Autism: An Introduction to Psychological Theory*, this completely new edition provides a concise overview of contemporary psychological theories about autism. Fletcher-Watson and Happé explore the relationship between theories of autism at psychological (cognitive), biological and behavioural levels, and consider their clinical and educational impact. The authors summarise what is known about the biology and behavioural features of autism, and provide concise but comprehensive accounts of all influential psychological models including 'Theory of Mind' (ToM) models, early social development models and alternative information processing models such as 'weak central

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coherence' theory. The book also discusses more recent attempts to understand autism, including the 'Double Empathy Problem' and Bayesian theories. In each case, the authors describe the theory, review the evidence and provide critical analysis of its value and impact. Recognising the multiplicity of theoretical views, and rapidly changing nature of autism research, each chapter considers current debates and major questions that remain for the future. Importantly, the book includes the voices of autistic people, including parents and practitioners, who were asked to provide commentaries on each chapter, helping to contextualise theory and research evidence with accounts of real-life experience. The book embraces neurodiversity whilst recognising the real needs of autistic people and their families. Thus *Autism: A New Introduction to Psychological Theory and Current Debate* provides the reader with a critical overview of psychological theory but also embeds this within community perspectives, making it a relevant and progressive contribution to understanding autism, and essential reading for students and practitioners across educational, clinical and social settings. "For students studying "education or psychology, for teachers or prospective teachers, and for instructional designers or instructors." "A concrete guide to the science of learning, instruction, and assessment written in a friendly tone and presented in a dynamic format. " The underlying premise of "Applying the Science of Learning "is that educators can better help students learn if they understand the processes through which student learning takes place. In this clear and concise first edition text, educational psychology scholar Richard Mayer teaches readers how to apply the science of learning through understanding the reciprocal relationships between learning, instruction, and assessment. Utilizing the significant advances in scientific learning research over the last 25 years, this introductory text identifies the features of science of

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learning that are most relevant to education, explores the possible prescriptions of these findings for instructional methods, and highlights the essentials of evaluating instructional effectiveness through assessment. "Applying the Science of Learning" is also presented in an easy-to-read modular design and with a conversational tone -- making it particularly student-friendly, whether it is being used as a supplement to a core textbook or as a standalone course textbook. Features: A concise and concentrated view of the field that covers the foundational ideas in learning, instruction, and assessment without overwhelming students or wasting words. A modular, multimedia approach organizes course material into two-page units with specific objectives, helpful graphics, and a welcoming design that helps readers organize and understand each concept. An emphasis on clear writing and concrete ideas makes learning easier for readers, especially by providing vocabulary definitions and specific examples. A personal and friendly tone instead of a formal, academic style make this book easier and more enjoyable to read. While few academic references clutter the text, key references and suggested readings are provided at the end of each section.

Psychologists can now quantify behaviours beyond the laboratory using a mass-adopted, unified system that is primed for data capture a.k.a. smartphones. This is the first book to bring together related areas of smartphone research and point towards how psychology can benefit and engage with these developments in the future. It critically considers how smartphones and related digital devices help answer and generate new research questions for psychological science. The book then guides readers through how smartphones are being used within psychology and social science more broadly. Drawing from examples of both good and bad practice within current research, a new perspective is brought to major themes and debates

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across behavioural science. In the digital age, smartphones and associated devices will be able to accomplish much more in the near future. Psychology has a key role to play when it comes to balancing this monumental potential with carefully considered research.

This custom edition is published for Griffith University.

Although qualitative approaches to psychological research have a long history in the discipline, they have also been, and remain, marginalized from the canon of mainstream scientific psychology. At the current moment, however, there is growing recognition of the importance of qualitative methods and a movement toward a more inclusive and eclectic stance on psychological research. This volume reflects upon the historical and contemporary place of qualitative methods in psychology and considers future possibilities for further integration of these methods in the discipline. Scholars representing a wide-range of perspectives in qualitative and theoretical psychology reflect on the historical and contemporary positions of qualitative methods in psychology with an eye to the future of research and theory in the discipline. This book encourages a more critical and inclusive stance on research, recognizing both the limits and contributions that different methodological approaches can make to the project of psychological knowledge.

Psychological Science Under Scrutiny explores a range of contemporary challenges to the assumptions and methodologies of psychology, in order to encourage debate and ground the discipline in solid science. Discusses the pointed challenges posed by critics to the field of psychological research, which have given pause to psychological researchers across a broad spectrum of sub-fields Argues that those conducting psychological research need to fundamentally change the way they think about data and results, in order to ensure that

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psychology has a firm basis in empirical science Places the recent challenges discussed into a broad historical and conceptual perspective, and considers their implications for the future of psychological methodology and research Challenges discussed include confirmation bias, the effects of grant pressure, false-positive findings, overestimating the efficacy of medications, and high correlations in functional brain imaging Chapters are authored by internationally recognized experts in their fields, and are written with a minimum of specialized terminology to ensure accessibility to students and lay readers

What makes psychology a science? What is the logic underlying psychological research? In this groundbreaking book Zoltán Dienes introduces students to key issues in the philosophy of science and statistics that have a direct and vital bearing on the practice of research in psychology. The book is organised around the influential thinkers and conceptual debates which pervade psychological research and teaching but until now have not been made accessible to students. In a clear and fluid style, Dienes takes the reader on a compelling tour of the ideas of: - Popper - Kuhn & Lakatos - Neyman & Pearson - Bayes - Fisher & Royall Featuring examples drawn from extensive teaching experience to ground the ideas firmly in psychological science, the book is an ideal companion to courses and modules in psychological research methods and also to those covering conceptual and historical issues. Drawing on teaching and learning research, the Sixth Edition provides new tools to improve students' reading, focus, and self-assessment. Chapters are now divided into brief "study units," each of which concludes with a self-test question to increase comprehension. NEW "Putting Psychology to Work" features show students how to apply psychology concepts to future careers. Our formative, adaptive learning tool, InQuizitive, and our online psychology

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labs, ZAPS 2.0, provide a hands-on approach to assessing students' understanding. Introduction to Psychological Science provides students with an accessible, comprehensive and engaging overview of the field of scientific psychology. It expertly incorporates a variety of perspectives ranging from neuroscience to cultural perspectives at an introductory level. Ray brings together cutting-edge research from traditional psychological literature to modern, evolving perspectives, and creates a unified approach by focusing on three core themes: Behavior and Experience: an analysis of behavior and experiences observed across a variety of everyday life situations. Neuroscience: an examination of psychological experiences through neuroscience lens ranging from genetic/epigenetic to cortical networks as related to psychology. Evolutionary/Human Origins: an exploration of broader scientific questions by examining psychological processes from the perspective of human and cultural history. Through these themes, the book delves into topics like social processes, psychopathology, stress and health, motivation and emotion, developmental sequences, and cognitive functions such as memory, learning, problem solving and language. Throughout it helps students to understand the nature of psychological science by addressing common myths and misconceptions in psychology, showing how psychological science can be applied to everyday life and how new research can be created. Additionally, this student-friendly book is packed with pedagogical features, from 'concept checks' to test reader knowledge, 'extensions' features which show how to apply knowledge, and a comprehensive glossary. Reflecting the latest APA Guidelines concerning the essential elements of an introductory psychology course, this text is core reading for all undergraduate introductory psychology students. Advancements in research in psychological science have afforded great insights into how our

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minds work. Making an Impact on Mental Health and Illness analyzes contemporary, international research to examine a number of core themes in mental health, such as mindfulness and attachment, and provide an understanding of the sources of mentally ill health and strategies for remediation. The originality of this work is the embedding of psychological science in an evolutionary approach. Each chapter discusses the context of a specific research project, looking at the methodological and practical challenges, how the results have been interpreted and communicated, the impact and legacy of the research, and the lessons learnt. As a whole, the book looks at how social environments shape who we are and how we form relationships with others, which can be detrimental, but equally a source of flourishing and wellbeing. Covering a range of themes conducive to understanding and facilitating improved mental health, Making an Impact on Mental Health and Illness is invaluable reading for advanced students in clinical psychology and professionals in the mental health field.

"This book is designed to help students organize their thinking about psychology at a conceptual level. The focus on behaviour and empiricism has produced a text that is better organized, has fewer chapters, and is somewhat shorter than many of the leading books. The beginning of each section includes learning objectives; throughout the body of each section are key terms in bold followed by their definitions in italics; key takeaways, and exercises and critical thinking activities end each section"--BCcampus website.

This book provides a significant contribution to scholarship on the psychology of science and the psychology of technology by showcasing a range of theory and research distinguished as psychological studies of science and technology. Science and technology are central to almost all domains of human activity, for which reason they are the focus of subdisciplines such as

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philosophy of science, philosophy of technology, sociology of knowledge, and history of science and technology. To date, psychology has been marginal in this space and limited to relatively narrow epistemological orientations. By explicitly embracing pluralism and an international approach, this book offers new perspectives and directions for psychological contributions. The book brings together leading theorists and researchers from around the world and spans scholarship across a variety of traditions that include theoretical psychology, critical psychology, feminist psychology and social constructionist approaches. Following a historical and conceptual introduction, the collection is divided into three sections: Scoping a New Psychology of Science and Technology, Applying Psychological Concepts to the Study of Science and Technology and Critical Perspectives on Psychology as a Science. The book will interest interdisciplinary scholars who work in the space of Science and Technology Studies and psychologists interested in the diverse human aspects of science and technology.

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