

# REFLEX ACTION

*A Study*  
IN  
THE HISTORY OF  
PHYSIOLOGICAL PSYCHOLOGY

By  
FRANKLIN FEARING, Ph.D.  
*Northwestern University*



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# Reflex Action A Study In The History Of Physiological Psychology

**Richard Lowry**



## **Reflex Action A Study In The History Of Physiological Psychology:**

Reflex Action Franklin Fearing, 1930      **Reflex action** Franklin Fearing, 1970      *A History of Nerve Functions* Sidney Ochs, 2004-04-19 Recent developments have extended our knowledge of the basic functions of nerves notably the demonstration of the mechanism within nerve fibers which transports a wide range of essential materials In order to understand how this discovery occurred it is necessary to examine its history The story begins in ancient Greece when nerves were conceived of as channels through which animal spirits carried sensory impressions to the brain As science developed the discoveries of various physical and chemical agents supplanted the agency of animal spirits until the molecular machinery of transport was recognized In this fascinating and complete history Sidney Ochs begins with a chronological look at this path of discovery followed in the second half by a thematic approach wherein the author describes the electrical nature of the nerve impulse fiber form and its changes in degeneration and regeneration reflexes learning memory and other higher functions in which transport participates      *A History of Psychology* William Douglas Woody, Wayne Viney, 2017-03-27 A History of Psychology The Emergence of Science and Applications Sixth Edition traces the history of psychology from antiquity through the early 21st century giving students a thorough look into psychology s origins and key developments in basic and applied psychology This new edition includes extensive coverage of the proliferation of applied fields since the mid twentieth century and stronger emphases on the biological basis of psychology new statistical techniques and qualitative methodologies and emerging therapies Other areas of emphasis include the globalization of psychology the growth of interest in health psychology the resurgence of interest in motivation and the importance of ecopsychology and environmental psychology Substantially revised and updated throughout this book retains and improves its strengths from prior editions including its strong scholarly foundation and scholarship from groups too often omitted from psychological history including women people of color and scholars from outside the United States This book also aims to engage and inspire students to recognize the power of history in their own lives and studies to connect history to the present and the future and to think critically and historically For additional resources consult the Companion Website at [www.routledge.com/cw/woody](http://www.routledge.com/cw/woody) where instructors will find lecture slides and outlines testbanks and how to sources for teaching History and Systems of Psychology courses and students will find review a timeline review questions complete glossary and annotated links to relevant resources      **The First Century of Experimental Psychology** Eliot Hearst, 2019-11-28 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 A History of Psychology Robert B. Lawson, Jean E. Graham, Kristin M. Baker, 2015-10-06 This book presents the view of psychology as a global enterprise the development of which is moderated by the dynamic tension between the move toward globalization and concomitant local forces It describes the broader intellectual and social context within which psychology has developed Descartes' Treatise on Man and its Reception Delphine Antoine-Mahut, Stephen Gaukroger, 2017-01-16 This edited volume features 20 essays written by leading scholars that provide a detailed examination of L Homme by Ren Descartes It explores the way in which this work developed themes not just on questions such as the circulation of the blood but also on central questions of perception and our knowledge of the world Coverage first offers a critical discussion on the different versions of L Homme including the Latin French and English translations and the 1664 editions Next the authors examine the early reception of the work from the connection of L Homme to early modern Dutch Cartesianism to Nicolas Steno s criticism of the work and how Descartes clock analogy is used to defend two different conceptions of the articulation between anatomical observations and functional hypotheses The book then goes on to explore L Homme and early modern anthropology as well as the how the work has been understood and incorporated into the works of scientists physicians and philosophers over the last 150 years Overall readers will discover how the trend over the last few decades to understand human cognition in neuro physiological terms can be seen to be not something unprecedented but rather a revival of a way of dealing with these fundamental questions that was pioneered by Descartes **Canguilhem** Stuart Elden, 2019-07-12 Georges Canguilhem 1904-95 was an influential historian and philosopher of science as renowned for his teaching as for his writings He is best known for his book *The Normal and the Pathological* originally his doctoral thesis in medicine but he also wrote a thesis in philosophy on the concept of the reflex supervised by Gaston Bachelard He was the sponsor of Michel Foucault s doctoral thesis on madness However his work extends far beyond what is suggested by his association with these thinkers Canguilhem also produced a series of important works on the natural sciences including studies of evolution psychology vitalism and mechanism experimentation monstrosity and disease Stuart Elden discusses the whole of this important thinker s complex work including recently rediscovered texts and archival materials Canguilhem always approached questions historically examining how it was that we came to a significant moment in time outlining tensions detours and paths not taken The first comprehensive study in English this book is a crucial guide for those coming to terms with Canguilhem s important contributions and will appeal to researchers and students from a range of fields *A History of the Brain* Andrew P. Wickens, 2014-12-08 *A History of the Brain* tells the full story of neuroscience from antiquity to the present day It describes how we have come to understand the biological nature of the brain beginning in prehistoric times

and progressing to the twentieth century with the development of Modern Neuroscience This is the first time a history of the brain has been written in a narrative way emphasizing how our understanding of the brain and nervous system has developed over time with the development of the disciplines of anatomy pharmacology physiology psychology and neurosurgery The book covers beliefs about the brain in ancient Egypt Greece and Rome the Medieval period Renaissance and Enlightenment the nineteenth century the most important advances in the twentieth century and future directions in neuroscience The discoveries leading to the development of modern neuroscience gave rise to one of the most exciting and fascinating stories in the whole of science Written for readers with no prior knowledge of the brain or history the book will delight students and will also be of great interest to researchers and lecturers with an interest in understanding how we have arrived at our present knowledge of the brain

**The Evolution of Psychological Theory** Richard Lowry, 2017-09-29 First published in 1982 Is there any point to studying the historical development of psychological theory apart from the antiquarian interest of finding out who said what when This book is offered in the belief that there is It is that such a study can provide valuable background for a critical analytical and in the healthy liberating sense of the term skeptical understanding of the psychological conceptions and presuppositions of the present This has been the author's aim throughout and it has determined both the selection of materials and the manner in which they are presented Although the book is not a textbook in the conventional sense of the term i.e. a comprehensive summary of everything a student needs to know it was written with students in mind and could be read with profit by students in a number of areas of psychological study

**Thinking Across Cultures** Donald M. Topping, Doris C. Crowell, Victor N. Kobayashi, 2013-09-05 This volume compares and contrasts contemporary theories of cognition modes of perception and learning from cross cultural perspectives The participants were asked to consider and assess the question of whether people from different cultures think differently Moreover they were asked to consider whether the same approaches to teaching and development of thinking will work in all cultures as well as they do in Western literate societies

**Human Physiology** R.F. Schmidt, G. Thews, 2013-11-11 Human Physiology is the English version of a time honored German textbook first published by HERMANN REIN in 1936 We undertook the preparation of a completely revised 20th edition with the intention of making the book accessible to a wide range of English speaking readers The subject matter was therefore organized so as to correspond to the structuring of physiology courses in most countries of the world The book is directed primarily at students of medicine Its aim is to enable them to understand living processes in the human organism providing the basis for the scientific understanding of pathological changes The material was chosen to give the reader not only the knowledge required for passing examinations but also information necessary for a subsequent professional career For this reason special attention was devoted to pathophysiological aspects We hope that the book will prove a useful reference on the present status of physiology for physicians in private and hospital practice as well as for its primary readership The book should also serve

biologists biochemists pharmacologists pharmacists and psychologist as a source of information on the physiological principles underlying their disciplines

The Oxford Handbook of William James Alexander Mugar Klein, 2024-04-30 This Handbook provides a structured overview of William James's intellectual work James was a pioneer of the new physiological psychology of the late nineteenth century He was also a founder of the pragmatist movement in philosophy and made influential contributions to metaphysics and to the study of religion as well This Handbook's chapters are organized either around major themes in James's writing or around his conversations with interlocutors

**The Sleep of Others and the Transformation of Sleep Research** Kenton Kroker, 2007-12-15 We tend to think of sleep as a private concern a night time retreat from the physical world into the realm of the subconscious Yet sleep also has a public side it has been the focal point of religious ritual philosophic speculation political debate psychological research and more recently neuroscientific investigation and medical practice In this first ever history of sleep research Kenton Kroker draws on a wide range of material to present the story of how an investigative field at one time dominated by the study of dreams slowly morphed into a laboratory based discipline The result of this transformation Kroker argues has changed the very meaning of sleep from its earlier conception to an issue for public health and biomedical intervention Examining a vast historical period of 2500 years Kroker separates the problems associated with the history of dreaming from those associated with sleep itself and charts sleep related diseases such as narcolepsy insomnia and sleep apnea He describes the discovery of rapid eye movement REM during the 1950s and shows how this discovery initiated the creation of dream laboratories that later emerged as centres for sleep research during the 1960s and 1970s Kroker's work is unique in subject and scope and will be enormously useful for both sleep researchers medical historians and anybody who's ever lost a night's sleep

The Nervous Stage Matthew Wilson Smith, 2018 The Nervous Stage examines the relations between theatrical practices and the scientific study of the nervous system

*What Makes a Philosopher Great?* Stephen Hetherington, 2017-11-10 This book is inspired by a single powerful question What is it to be great as a philosopher No single grand answer is presumed to be possible instead rewardingly close studies of philosophical greatness are developed This is a scholarly yet accessible volume blending metaphilosophy with the long history of philosophy and traversing centuries and continents The result is a series of case studies by accomplished scholars each chapter trying to understand and convey a particular philosopher's greatness Lloyd P Gerson on Plato Karyn Lai on Zhuangzi David Bronstein on Aristotle Jonardon Ganeri on Buddhaghosa Jeffrey Hause on Aquinas Gary Hatfield on Descartes Karen Detlefsen on de Châtelet Don Garrett on Hume Allen Wood on Kant as a moral philosopher Nicholas F Stang on Kant as a metaphysician Ken Gemes on Nietzsche Cheryl Misak on Peirce David Macarthur on Wittgenstein This also serves a larger philosophical purpose Might we gain increased clarity about what philosophy is in the first place After all in practice we individuate philosophy partly through its greatest practitioners greatest contributions The book does not discuss every philosopher who has been regarded as great The point is not to offer a definitive list of The

Great Philosophers but rather to learn something about what great philosophy is and might be from illuminated examples of past greatness

**Lectures on Perception** Michael T. Turvey, 2018-10-31 Lectures on Perception An Ecological Perspective addresses the generic principles by which each and every kind of life form from single celled organisms e.g. *Amoeba* to multi celled organisms e.g. primates perceives the circumstances of their living so that they can behave adaptively It focuses on the fundamental ability that relates each and every organism to its surroundings namely the ability to perceive things in the sense of how to get about among them and what to do or not to do with them The book's core thesis breaks from the conventional interpretation of perception as a form of abduction based on innate hypotheses and acquired knowledge and from the historical scientific focus on the perceptual abilities of animals most especially those abilities ascribed to humankind Specifically it advances the thesis of perception as a matter of laws and principles at nature's ecological scale and gives equal theoretical consideration to the perceptual achievements of all of the classically defined kingdoms of organisms Archaea Bacteria Protista Fungi Plantae and Animalia

**Handbook of Psychophysiology** John T. Cacioppo, Louis G. Tassinary, Gary G. Berntson, 2016-12-15 The Handbook of Psychophysiology has been the authoritative resource for more than a quarter of a century Since the third edition was published a decade ago the field of psychophysiological science has seen significant advances both in traditional measures such as electroencephalography event related brain potentials and cardiovascular assessments and in novel approaches and methods in behavioural epigenetics neuroimaging psychoneuroimmunology psychoneuroendocrinology neuropsychology behavioural genetics connectivity analyses and non contact sensors At the same time a thoroughgoing interdisciplinary focus has emerged as essential to scientific progress Emphasizing the need for multiple measures careful experimental design and logical inference the fourth edition of the Handbook provides updated and expanded coverage of approaches methods and analyses in the field With state of the art reviews of research in topical areas such as stress emotion development language psychopathology and behavioural medicine the Handbook remains the essential reference for students and scientists in the behavioural cognitive and biological sciences

**Ivan Pavlov** Daniel Todes, 2000-06-22 Hailed as the Prince of World Physiology Ivan Pavlov continues to influence scientists today His pioneering research on digestion the brain and behavior still provides important insights into the minds of animals including humans and is an inspiring example of imaginative experimental technique Pavlov graduated from the theological seminary in his native Ryazan Russia in 1869 but almost immediately switched to medicine and enrolled at St Petersburg University He became interested in the physiology of circulation and digestion which led him to the study of conditional and unconditional reflexes He conducted thousands of experiments with dogs developing a way to use a dog's salivary glands as a window through which to observe the workings of its brain Pavlov lived through the Russian Revolution and the civil war that followed it Lenin himself recognized his genius and provided financial backing for his research the new Soviet government built a research complex dedicated exclusively to his experiments Pavlov was honored for his contributions to science with

the Nobel Prize for Physiology in 1904 Oxford Portraits in Science is an ongoing series of scientific biographies for young adults Written by top scholars and writers each biography examines the personality of its subject as well as the thought process leading to his or her discoveries These illustrated biographies combine accessible technical information with compelling personal stories to portray the scientists whose work has shaped our understanding of the natural world *The Idea of the Brain* Matthew Cobb, 2020-03-12 Shortlisted for the 2020 Baillie Gifford Prize A New Statesman Book of the Year This is the story of our quest to understand the most mysterious object in the universe the human brain Today we tend to picture it as a computer Earlier scientists thought about it in their own technological terms as a telephone switchboard or a clock or all manner of fantastic mechanical or hydraulic devices Could the right metaphor unlock the its deepest secrets once and for all Galloping through centuries of wild speculation and ingenious sometimes macabre anatomical investigations scientist and historian Matthew Cobb reveals how we came to our present state of knowledge Our latest theories allow us to create artificial memories in the brain of a mouse and to build AI programmes capable of extraordinary cognitive feats A complete understanding seems within our grasp But to make that final breakthrough we may need a radical new approach At every step of our quest Cobb shows that it was new ideas that brought illumination Where he asks might the next one come from What will it be



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