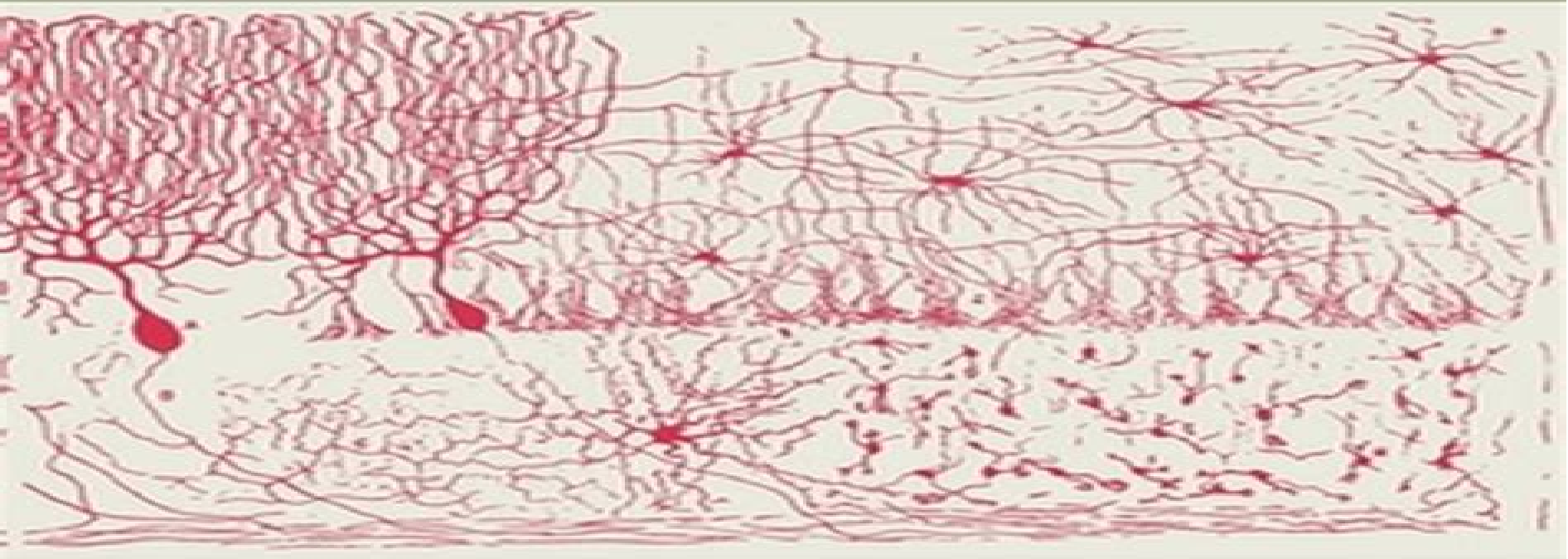


FOUNDATIONS OF THE NEURON DOCTRINE



GORDON M. SHEPHERD

Foundations Of The Neuron Doctrine

S. Scott Graham



Foundations Of The Neuron Doctrine:

Foundations of the Neuron Doctrine Gordon M Shepherd, 2015-10-06 The neuron doctrine first formulated in 1891 states that the brain is constructed of individual neurons organized into functioning circuits that mediate behavior. It is the fundamental principle that underlies all of neuroscience and clinical neurology. *Foundations of the Neuron Doctrine* gives an authoritative account of how this theory was the product of an explosion of histological studies and vigorous debates near the end of the nineteenth century by an extraordinary group of scientists led by Santiago Ramón y Cajal of Spain using a selective stain discovered by Camillo Golgi of Italy. They were the first to describe the distinctive branching patterns of nerve cells providing evidence that the cells interact as individual units to form circuits opposed however by Golgi who held out for a view that the nerve cells form syncytial networks. Studies in the 1950s appeared to confirm the nerve cell as an individual unit as embodied in the neuron doctrine which became the basis for the rise of concepts of normal and disordered neural function since then. This 25th Anniversary Edition is timely. Recent studies are showing a much greater degree of complexity in neuronal organization so that the debate of neuron versus network is again coming to the fore in neuroscience research. Unique to this Anniversary Edition is the inclusion of commentaries by distinguished international leaders Marina Bentivoglio, Xavier De Felipe, Sten Grillner, Paolo Mazzarello, Larry Swanson and Rafael Yuste on the continuing relevance of the neuron doctrine for modern studies of the brain at all levels from genes and molecules to microcircuits, neural networks and behavior. As this new wave of modern studies expands our concepts of nervous function as the basis of behavior, *Foundations of the Neuron Doctrine* will be a unique source providing conceptual continuity from classical times to the present and into the future. With commentaries from Marina Bentivoglio, Paolo Mazzarello, Javier DeFelipe, Larry Swanson, Sten Grillner, Rafael Yuste. *Foundations of the Neuron Doctrine* Gordon M. Shepherd, 2023. *The Theoretical Foundation of Dendritic Function* Wilfrid Rall, 1995. This collection of fifteen previously published papers, some of them not widely available, have been carefully chosen and annotated by Rall's colleagues and other leading neuroscientists.

Advances in Protein and Peptide Sciences Ben M. Dunn, 2013-10-30. *Advances in Protein and Peptide Sciences* is a book series focused on leading edge research on the structure, physical properties and functions of proteins and peptides. The series presents highly cited contributions first published in the journal *Current Protein and Peptide Science*. Authors of these contributions have updated their work with new experimental data and references following their initial research. Each volume highlights a number of important topics in current research in the field of protein and peptide chemistry and molecular biology including membrane proteins and their interactions with ligands, computational methods and proteins in disease and biotechnology.

Neurological Foundations of Animal Behavior Charles Judson Herrick, 1924. **A System of Medicine, by Many Writers** Thomas Clifford Allbutt, Sir Humphry Davy Rolleston, 1910. **A System of medicine, by many writers v. 7, 1905/11** Sir Thomas Clifford Allbutt, 1911. *The Dreams of Santiago Ramón Y Cajal* Benjamin Ehrlich, 2017. *The Dreams of*

Santiago Ramón y Cajal contains the lost dream diary of the Nobel Prize winning father of modern neuroscience translated into English for the first time The book explores the complex attitudes of Cajal towards his contemporary Sigmund Freud whose theories he dismissed *Current Catalog* National Library of Medicine (U.S.),1992 First multi year cumulation covers six years 1965-70

Theories of Consciousness William Seager,2002-01-31 The most remarkable fact about the universe is that certain parts of it are conscious Somehow nature has managed to pull the rabbit of experience out of a hat made of mere matter Making its own contribution to the current lively debate about the nature of consciousness Theories of Consciousness introduces variety of approaches to consciousness and explores to what extent scientific understanding of consciousness is possible Including discussion of key figures such as Descartes Fodor Dennett and Chalmers the book covers identity theories representational theories intentionality externalism and the new information based theories

Handbook of Brain Microcircuits Gordon M. Shepherd,Sten Grillner,2018 In order to focus on principles each chapter in this work is brief organized around 1-3 wiring diagrams of the key circuits with several pages of text that distil the functional significance of each microcircuit

Encyclopedia of Neuroscience, Volume 1 Larry R. Squire,2009-06-12 The Encyclopedia of the Neuroscience explores all areas of the discipline in its focused entries on a wide variety of topics in neurology neurosurgery psychiatry and other related areas of neuroscience Each article is written by an expert in that specific domain and peer reviewed by the advisory board before acceptance into the encyclopedia Each article contains a glossary introduction a reference section and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields

Connectome Analysis Markus D. Schirmer,Tomoki Arichi,Ai Wern Chung,2023-06-30 Connectome Analysis Characterization Methods and Analysis is a comprehensive companion for the analysis of brain networks or connectomes The book provides sources of constituent structural and functional MRI signals network construction and practices for analysis cutting edge methods that address the latest challenges in neuroscience and the fundamentals of network theory in the context of giving practical methods for building connectomes for analysis Emphasis is placed on quality control of the individual analysis steps Subsequent chapters discuss networks in neuroscience in clinical and general populations including how findings are related to underlying neurophysiology and neuropsychology This book is aimed at students and early career researchers in brain connectomics and neuroimaging who have a background in computer science mathematics and physics as well as more broadly to neuroscientists and psychologists who want to start incorporating connectomics into their research Provides practical recommendations on how to construct assess and analyze brain networks Gives an understanding of all the technical methods for connectome analysis Presents the basic network theoretical principles typically used in neuroscience Covers the latest tools and data repositories that are freely available for the reader to carry out connectomic analyses

Foundations of Artificial Intelligence and Robotics Wendell H. Chun,2024-12-24

Artificial intelligence AI is a complicated science that combines philosophy cognitive psychology neuroscience mathematics and logic logicism economics computer science computability and software Meanwhile robotics is an engineering field that compliments AI There can be situations where AI can function without a robot e g Turing Test and robotics without AI e g teleoperation but in many cases each technology requires each other to exhibit a complete system having smart robots and AI being able to control its interactions i e effectors with its environment This book provides a complete history of computing AI and robotics from its early development to state of the art technology providing a roadmap of these complicated and constantly evolving subjects Divided into two volumes covering the progress of symbolic logic and the explosion in learning deep learning in natural language and perception this first volume investigates the coming together of AI the mind and robotics the body and discusses the state of AI today Key Features Provides a complete overview of the topic of AI starting with philosophy psychology neuroscience and logicism and extending to the action of the robots and AI needed for a futuristic society Provides a holistic view of AI and touches on all the misconceptions and tangents to the technologies through taking a systematic approach Provides a glossary of terms list of notable people and extensive references Provides the interconnections and history of the progress of technology for over 100 years as both the hardware Moore s Law GPUs and software i e generative AI have advanced Intended as a complete reference this book is useful to undergraduate and postgraduate students of computing as well as the general reader It can also be used as a textbook by course convenors If you only had one book on AI and robotics this set would be the first reference to acquire and learn about the theory and practice

The MIT Encyclopedia of the Cognitive Sciences (MITECS) Robert A. Wilson, Frank C. Keil, 2001-09-04 Since the 1970s the cognitive sciences have offered multidisciplinary ways of understanding the mind and cognition The MIT Encyclopedia of the Cognitive Sciences MITECS is a landmark comprehensive reference work that represents the methodological and theoretical diversity of this changing field At the core of the encyclopedia are 471 concise entries from Acquisition and Adaptationism to Wundt and X bar Theory Each article written by a leading researcher in the field provides an accessible introduction to an important concept in the cognitive sciences as well as references or further readings Six extended essays which collectively serve as a roadmap to the articles provide overviews of each of six major areas of cognitive science Philosophy Psychology Neurosciences Computational Intelligence Linguistics and Language and Culture Cognition and Evolution For both students and researchers MITECS will be an indispensable guide to the current state of the cognitive sciences

A New Foundation for Representation in Cognitive and Brain Science Jaime Gómez-Ramírez, 2013-11-22 The purpose of the book is to advance in the understanding of brain function by defining a general framework for representation based on category theory The idea is to bring this mathematical formalism into the domain of neural representation of physical spaces setting the basis for a theory of mental representation able to relate empirical findings uniting them into a sound theoretical corpus The innovative approach presented in the book provides a

horizon of interdisciplinary collaboration that aims to set up a common agenda that synthesizes mathematical formalization and empirical procedures in a systemic way Category theory has been successfully applied to qualitative analysis mainly in theoretical computer science to deal with programming language semantics Nevertheless the potential of category theoretic tools for quantitative analysis of networks has not been tackled so far Statistical methods to investigate graph structure typically rely on network parameters Category theory can be seen as an abstraction of graph theory Thus new categorical properties can be added into network analysis and graph theoretic constructs can be accordingly extended in more fundamental basis By generalizing networks using category theory we can address questions and elaborate answers in a more fundamental way without waiving graph theoretic tools The vital issue is to establish a new framework for quantitative analysis of networks using the theory of categories in which computational neuroscientists and network theorists may tackle in more efficient ways the dynamics of brain cognitive networks The intended audience of the book is researchers who wish to explore the validity of mathematical principles in the understanding of cognitive systems All the actors in cognitive science philosophers engineers neurobiologists cognitive psychologists computer scientists etc are akin to discover along its pages new unforeseen connections through the development of concepts and formal theories described in the book Practitioners of both pure and applied mathematics e g network theorists will be delighted with the mapping of abstract mathematical concepts in the terra incognita of cognition Natural Fabrications William Seager, 2012-08-13 The spectacular success of the scientific enterprise over the last four hundred years has led to the promise of an all encompassing vision of the natural world In this elegant picture everything we observe is based upon just a few fundamental processes and entities The almost infinite variety and complexity of the world is thus the product of emergence But the concept of emergence is fraught with controversy and confusion This book ponders the question of how emergence should be understood within the scientific picture and whether a complete vision of the world can be attained that includes consciousness *The Revised Standard Edition of the Complete Psychological Works of Sigmund Freud* Mark Solms, 2024-06-04 The long awaited Revised Standard Edition of the Complete Psychological Works of Sigmund Freud RSE is founded on the canonical Standard Edition SE translation from the German by James Strachey while adding a new layer of revisions and translations Conceptual and lexicographic ambiguities are clarified in extensive new annotations Drawing on established conventions and intellectual traditions the Revised Standard Edition supplements Freud s writing with substantial editorial commentaries addressing controversial technical terms and translation issues through the lens of modern scholarship a living text in dialogue with itself and the reader The RSE also includes 56 essays and letters which were not included in the SE In the RSE text and footnotes a subtle underlining distinguishes in an easy and accessible way Mark Solms s revisions and additions from the historical translation and commentaries of James Strachey s Standard Edition Readers can examine what Strachey contributed before the revisions in tandem with Solms s updates new translations annotations and commentaries collectively

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Encyclopedia of the Neurological Sciences, 2014-04-29 The Encyclopedia of the Neurological Sciences, Second Edition, Four Volume Set develops from the first edition covering all areas of neurological sciences through over 1000 entries focused on a wide variety of topics in neurology, neurosurgery, psychiatry, and other related areas of neuroscience. The contributing authors represent all aspects of neurology from many viewpoints and disciplines to provide a complete overview of the field. Entries are designed to be understandable without detailed background knowledge in the subject matter and cross-referencing and suggested further reading lead the reader from a basic knowledge of the subject to more advanced understanding. The easy-to-use encyclopedic dictionary format of the Encyclopedia of the Neurological Sciences, Second Edition features alphabetic entries, extensive cross-referencing, and a thorough index for quick reference. The wealth of information provided by these four volumes makes this reference work a trusted source of valuable information for a wide range of researchers from undergraduate students to academic researchers. Provides comprehensive coverage of the field of neurological science in over 1,000 entries in 4 volumes. Encyclopedic dictionary format provides for concise, readable entries and easy searching. Presents complete up-to-date information on 32 separate areas of neurology. Entries are supplemented with extensive cross-referencing, useful references to primary research articles, and an extensive index.

The Politics of Pain Medicine S. Scott Graham, 2015-11-17 Chronic pain is a medical mystery, debilitating to patients and a source of frustration for practitioners. It often eludes both cause and cure and serves as a reminder of how much further we have to go in unlocking the secrets of the body. A new field of pain medicine has evolved from this landscape, one that intersects with dozens of disciplines and subspecialties ranging from psychology and physiology to anesthesia and chiropractic medicine. Over the past three decades, researchers, policy makers, and practitioners have

struggled to define this complex and often contentious field as they work to establish standards while navigating some of the most challenging philosophical issues of Western science In *The Politics of Pain Medicine: A Rhetorical Ontological Inquiry* S Scott Graham offers a rich and detailed exploration of the medical rhetoric surrounding pain medicine Graham chronicles the work of interdisciplinary pain management specialists to found a new science of pain and a new approach to pain medicine grounded in a more comprehensive biopsychosocial model His insightful analysis demonstrates how these materials ultimately shape the healthcare community's understanding of what pain medicine is how the medicine should be practiced and regulated and how practitioner-patient relationships are best managed It is a fascinating novel examination of one of the most vexing issues in contemporary medicine

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