

Foundations Of Cellular Neurophysiology

Alain Destexhe, Terrence Sejnowski



Foundations Of Cellular Neurophysiology:

Foundations of Cellular Neurophysiology Daniel Johnston, Samuel Miao-Sin Wu, 1994-11-02 with simulations and illustrations by Richard Gray Problem solving is an indispensable part of learning a quantitative science such as neurophysiology This text for graduate and advanced undergraduate students in neuroscience physiology biophysics and computational neuroscience provides comprehensive mathematically sophisticated descriptions of modern principles of cellular neurophysiology It is the only neurophysiology text that gives detailed derivations of equations worked examples and homework problem sets with complete answers Developed from notes for the course that the authors have taught since 1983 Foundations of Cellular Neurophysiology covers cellular neurophysiology also some material at the molecular and systems levels from its physical and mathematical foundations in a way that is far more rigorous than other commonly used texts in this area **Foundations of cellular neurophysiology** Johnston, 1994 Foundation of cellular neurophysiology ,

Von Wunschmaschinen zu virtuellen Universen Benjamin Kacas, 2003 Neurowissenschaften Mark F. Bear, Barry W. Connors, Michael A. Paradiso, 2018-09-17 Der perfekte Einstieg in die Neurowissenschaften ideal zum Verstehen und Lernen Seit vielen Jahren z hlt diese didaktisch durchdachte verst ndlich geschriebene und hervorragend illustrierte Einf hrung international zu den f hrenden Lehrb chern im Bereich der Neurowissenschaften Das moderne Grundlagenwerk richtet sich an Studierende der Biologie der Medizin und der Psychologie gleicherma en Die wieder von Andreas Engel herausgegebene deutsche Ausgabe ist an die hiesige Studiensituation angepasst und stellenweise erweitert Der Bogen spannt sich von der Anatomie des Gehirns bis zur Sinnesphysiologie von der Entwicklungsbiologie bis zum Verhalten von den St rungen des Nervensystems bis zur Kognitionswissenschaft von den molekularen Mechanismen bis zu den neuen bildgebenden Verfahren Ein eigenst ndiger Bildatlas der menschlichen Neuroanatomie erlaubt dem Lernenden seine Kenntnisse der Hirnstrukturen zu berpr fen und zu erweitern Jedes Kapitel endet mit Verst ndnisfragen und bungsaufgaben sowie einer Zusammenstellung wichtiger weiterf hrender Literatur In spannenden Exkursen berichten renommierte Wissenschaftler wie sie zu ihren entscheidenden Entdeckungen kamen So f hrt das Buch den Leser von den Grundlagen zu den aktuellen Forschungsthemen des Faches In der durchgehend aktualisierten 4 Auflage sind unter anderem neue Forschungsergebnisse zu Optogenetik Konnektomik tiefer Hirnstimulation molekularer Medizin und Neuro konomie eingearbeitet worden Zahlreiche neue oder aktualisierte Abbildungen veranschaulichen in bew hrter Manier die im Text beschriebenen Prozesse Strukturen und Methoden Wer Neurowissenschaften in ihrer ganzen Bandbreite verstehen will ist mit dem Bear bestens bedient Den drei Verfassern des Buches gelingt womit Lehrbuchautoren im deutschsprachigen Raum sich nach wie vor schwer tun anschaulich undspannend den Leser vom Einstieg in die Grundlagen bis an die vorderste Front der Forschung mitzunehmen und ohne berfl ssigen Ballast wissenschaftliche Erkenntnis mehr erz hlend als erkl rend zu vermitteln Ein didaktisches Meisterwerk ist nun topaktuell auch in deutscher Sprache neu aufgelegt verf gbar Aus dem Vorwort von Prof Andreas K

Engel Universität Hamburg Eppendorf *Physiologie* Rosemarie Baumann, 2010 *Zur Konstruktion künstlicher Gehirne* Ulrich Ramacher, Christoph von der Malsburg, 2009-04-09 In diesem Buch wird eine erste Generation von künstlichen Hirnen für das Sehen vorgestellt Auf der ausschliesslichen Grundlage von Neuron und Synapsenmodellen wird ein Objekterkennungssystem konstruiert welches eine Merkmalspyramide mit 8 Orientierungen und 5 Auflösungsklassen für 1000 Objekte sowie die Netze für die Bindung von Merkmalen zu Objekten umfasst Dieses Sehsystem kann unabhängig von der Beleuchtung dem Gesichtsausdruck der Entfernung und einer Drehung welche die Objektkomponenten sichtbar lässt Objekte erkennen Seine Realisierung erfordert 59 Chips davon sind 4 verschieden welche mittels 3D Technologie zu einem Quader von 8mm x 8mm x 1mm aufgeschichtet sind Die Leistungsfähigkeit des neuronal synaptischen Netzwerkes beruht auf der Einführung von schnell veränderlichen dynamischen Synapsen Anders als Netze mit konstanten Synapsen können solche mit dynamischen Synapsen allgemeine Aufgaben der Mustererkennung übernehmen Die räumlich zeitliche Korrelationsstruktur von Mustern wird durch eine einzige synaptische Differentialgleichung in universeller Weise erfasst Die Korrelation kann in Erscheinung treten als synchrone Pulstätigkeit einer Neuronengruppe wodurch das Vorliegen eines Merkmals in robuster Weise angezeigt wird oder als Bindung von Merkmalen zu Objekten Auch wenn die Autoren der Überzeugung sind dass noch viele Generationen folgen müssen um die Leistungsfähigkeit des menschlichen Gehirns zu erreichen sehen sie doch ein neues Rechen Zeitalter aufziehen Es gab Zeiten da wurden Computer mit ihrer Präzision Zuverlässigkeit und rasanten Geschwindigkeit der feuchten Materie unseres Gehirns als so weit überlegen angesehen wie das Düsenflugzeug dem Spatzen Dass diese Zeiten vorbei sind ist gewiss denn durch formale Logik inspirierte algorithmisch gesteuerte und mit digitaler Elektronik realisierte Systeme die heutigen Computer stossen an ihre Komplexitätsgrenzen Andererseits eröffnen die hier vorgestellten Ergebnisse den Weg zu einer Alternative Ein Paradigmenwechsel liegt in der Luft vom fremdorganisierten zum selbstorganisierten Computer Calculus for Cognitive Scientists James Peterson, 2016-02-11 This book shows cognitive scientists in training how mathematics computer science and science can be usefully and seamlessly intertwined It is a follow up to the first two volumes on mathematics for cognitive scientists and includes the mathematics and computational tools needed to understand how to compute the terms in the Fourier series expansions that solve the cable equation The latter is derived from first principles by going back to cellular biology and the relevant biophysics A detailed discussion of ion movement through cellular membranes and an explanation of how the equations that govern such ion movement leading to the standard transient cable equation are included There are also solutions for the cable model using separation of variables as well an explanation of why Fourier series converge and a description of the implementation of MatLab tools to compute the solutions Finally the standard Hodgkin Huxley model is developed for an excitable neuron and is solved using MatLab The Book of GENESIS James M. Bower, David Beeman, 2012-12-06 This is the second edition of a step by step tutorial for professionals researchers and students working in the area of neuroscience in general and computational neuroscience in

particular It can also be used as an interactive self study guide to understanding biological neuronal and network structure for those working in the area of artificial neural networks and the cognitive sciences The tutorials are based upon the GENESIS neural simulation system which is now being used for teaching and research in at least 26 countries The following chapters consist of a combination of edited contributions from researchers in computational neuroscience and current users of the system as well as several chapters that we have written ourselves This book and the tutorial simulations on which it is based grew out of a simulation laboratory accompanying the annual Methods in Computational Neuroscience course taught at the Marine Biological Laboratory in Woods Hole MA from 1988 to 1992 Since that time the tutorials have been further developed and refined while being used in courses taught at Caltech and several other institutions including the Crete course in Computational Neuroscience For this second edition we have made many revisions and additions based on comments suggestions and corrections from members of the GENESIS Users Group BABEL and from students and teachers who have used this book

The Synaptic Organization of the Brain Gordon M. Shepherd, 2004 This is a thorough revision of the standard text on local circuits in the different regions of the brain In this fifth edition the results of the mouse and human genome projects are incorporated for the first time Also for the first time the reader is oriented to supporting neuroscience databases Among the new advances covered are 2 photon confocal laser microscopy of dendrites and dendritic spines biochemical analyses and dual patch and multielectrode recordings applied together with an increasing range of behavioral and gene targeting methods

Neuromorphic Intelligence Shuangming Yang, Badong Chen, 2024-05-14 This book provides a valuable resource on the design of neuromorphic intelligence which serves as a computational foundation for building compact and low power brain inspired intelligent systems The book introduces novel spiking neural network learning algorithms including spike based learning based on the multi compartment model and spike based learning with information theory These offer important insights and academic value for readers to grasp the latest advances in neural inspired learning Additionally the book presents insights and approaches to the design of scalable neuromorphic architectures which are crucial foundations for achieving highly cognitive and energy efficient computing systems Furthermore the book introduces representative large scale neuromorphic systems and reviews several recently implemented large scale digital neuromorphic systems by the authors providing corresponding application scenarios

Neural Masses and Fields: Modelling the Dynamics of Brain Activity Karl Friston, 2015-05-25 Biophysical modelling of brain activity has a long and illustrious history and has recently profited from technological advances that furnish neuroimaging data at an unprecedented spatiotemporal resolution Neuronal modelling is a very active area of research with applications ranging from the characterization of neurobiological and cognitive processes to constructing artificial brains in silico and building brain machine interface and neuroprosthetic devices Biophysical modelling has always benefited from interdisciplinary interactions between different and seemingly distant fields ranging from mathematics and engineering to linguistics and psychology This

Research Topic aims to promote such interactions by promoting papers that contribute to a deeper understanding of neural activity as measured by fMRI or electrophysiology In general mean field models of neural activity can be divided into two classes neural mass and neural field models The main difference between these classes is that field models prescribe how a quantity characterizing neural activity such as average depolarization of a neural population evolves over both space and time as opposed to mass models which characterize activity over time only by assuming that all neurons in a population are located at approximately the same point This Research Topic focuses on both classes of models and considers several aspects and their relative merits that span from synapses to the whole brain comparisons of their predictions with EEG and MEG spectra of spontaneous brain activity evoked responses seizures and fitting data to infer brain states and map physiological parameters

Computational Cell Biology Christopher P. Fall, Eric S. Marland, John M. Wagner, John J. Tyson, 2007-06-04 This textbook provides an introduction to dynamic modeling in molecular cell biology taking a computational and intuitive approach Detailed illustrations examples and exercises are included throughout the text Appendices containing mathematical and computational techniques are provided as a reference tool

Statistical Analysis of fMRI Data, second edition F. Gregory Ashby, 2019-09-17 A guide to all aspects of experimental design and data analysis for fMRI experiments completely revised and updated for the second edition Functional magnetic resonance imaging fMRI which allows researchers to observe neural activity in the human brain noninvasively has revolutionized the scientific study of the mind An fMRI experiment produces massive amounts of highly complex data for researchers to analyze This book describes all aspects of experimental design and data analysis for fMRI experiments covering every step from preprocessing to advanced methods for assessing functional connectivity as well as the most popular multivariate approaches The goal is not to describe which buttons to push in the popular software packages but to help researchers understand the basic underlying logic the assumptions the strengths and weaknesses and the appropriateness of each method The field of fMRI research has advanced dramatically in recent years in both methodology and technology and this second edition has been completely revised and updated Six new chapters cover experimental design functional connectivity analysis through the methods of psychophysiological interactions and beta series regression decoding using multi voxel pattern analysis dynamic causal modeling and representational similarity analysis Other chapters offer new material on recently discovered problems related to head movements the multivariate GLM meta analysis and other topics All complex derivations now appear at the end of the relevant chapter to improve readability A new appendix describes how to build a design matrix with effect coding for group analysis As in the first edition MATLAB code is provided with which readers can implement many of the methods described

Fundamental Neuroscience Larry Squire, 2013 This comprehensive textbook seeks to define the full scope of neuroscience Developed in accordance with results of extensive reviews the text is divided into seven integrated sections

Sudden Unexpected Death in Epilepsy Claire M. Lathers, Paul L. Schraeder, Jan E. Leestma, Braxton B.

Wannamaker, Richard L. Verrier, F.A.C.C., Ph.D., Steven C. Schachter, MD, 2015-04-06 Sudden Unexpected Death in Epilepsy Mechanisms and New Methods for Analyzing Risks builds on earlier works focusing on the clinical problem of sudden unexpected death in epilepsy SUDEP This book presents a methodology for identifying and classifying clusters of risks that lead to SUDEP Developed over the last two years the SUDEP Classificatio **Neural Engineering** Chris Eliasmith, Charles H. Anderson, 2003 A synthesis of current approaches to adapting engineering tools to the study of neurobiological systems

Thalamocortical Assemblies Alain Destexhe, Terrence Sejnowski, 2023-11-27 During sleep the mammalian brain generates an orderly progression of low frequency oscillations as the brain moves from sleep onset into deep sleep This book explores the underlying neural mechanisms involved in generating these oscillations through interacting neural assemblies in the thalamus and the cortex Sleep spindles are involved in the consolidation of experiences in long term memory during sleep Written by two leading experts in the field this book integrates the properties of ion channels synaptic interactions and intrinsic cellular mechanisms into biophysical models of neural oscillations in local circuits and distributed networks In particular the book focuses on sleep spindles and how they are hijacked by epileptic seizures Reissued in paperback after being unavailable for many years this revised edition of *Thalamocortical Assemblies* includes updates to each chapter highlighting developments since its first publication The book will be valuable to neuroscientists neurobiologists physiologists and computational researchers interested in sleep and memory processes Quantum Information and Consciousness

Danko D. Georgiev, 2017-12-06 I loved the book This book is not just interesting it is exciting I have probably read every significant book in the field and this is the strongest and most convincing one yet It is also one of the most comprehensive in its explanations I shall most certainly recommend the book to colleagues Richard G Petty MD a very good introduction to the basic theory of quantum systems Dr Georgiev's book aptly prepares the reader to confront whatever might be in store later from the Foreword by Prof James F Glazebrook Eastern Illinois University This book addresses the fascinating cross disciplinary field of quantum information theory applied to the study of brain function It offers a self study guide to probe the problems of consciousness including a concise but rigorous introduction to classical and quantum information theory theoretical neuroscience and philosophy of the mind It aims to address long standing problems related to consciousness within the framework of modern theoretical physics in a comprehensible manner that elucidates the nature of the mind body relationship The reader also gains an overview of methods for constructing and testing quantum informational theories of consciousness Handbook of Computational Neurodegeneration Panagiotis Vlamos, Ilias S. Kotsireas, Ioannis

Tarnanas, 2023-07-25 The Handbook of Computational Neurodegeneration provides a comprehensive overview of the field and thus bridges the gap between standard textbooks of research on neurodegeneration and dispersed publications for specialists that have a narrowed focus on computational methods to study this complicated process The handbook reviews the central issues and methodological approaches related to the field for which the reader pursues a thorough overview It

also conveys more advanced knowledge thus serving both as an introductory text and as a starting point for an in depth study of a specific area as well as a quick reference source for the expert by reflecting the state of the art and future prospects The book includes topics that are usually missing in standard textbooks and that are only marginally represented in the specific literature The broad scope of this handbook is reflected by five major parts that facilitate an integration of computational concepts methods and applications in the study of neurodegeneration Each part is intended to stand on its own giving an overview of the topic and the most important problems and approaches which are supported by examples practical applications and proposed methodologies The basic concepts and knowledge standard procedures and methods are presented as well as recent advances and new perspectives

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