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~~Neurons And Networks An Introduction~~

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When first published, Neurons and Networks filled the need for an introductory neuroscience text that is lucid, accessible, authoritative, logically organized, and concise. Avoiding the encyclopedic coverage that makes most neuroscience texts overwhelming, Neurons and Networks focused instead on building the solid foundation of understanding and knowledge required for further study.

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So, multiple levels of networks are ubiquitous in the nervous system. Networks are also prevalent within neurons. These nanocircuits constitute the underlying biochemical machinery for mediating key neuronal properties such as learning and memory and the genesis of neuronal rhythmicity. The Neuron. Basic morphological features of neurons

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Harvard University Press is proud to announce the second edition of a widely admired introductory textbook. When first published, Neurons and Networks filled the need for an introductory neuroscience text that is lucid, accessible, authoritative, logically organized, and concise. Avoiding the encyclopedic coverage that makes most neuroscience texts overwhelming, Neurons and Networks focused instead on building the solid foundation of understanding and knowledge required for further study.

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Completely revised and enlarged with six new chapters, the second edition of Neurons and Networks is an introduction not just to neurobiology, but to all of behavioral neuroscience. It is an ideal text for first- or second-year college students with minimal college science exposure.

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Completely revised and enlarged with six new chapters, the second edition of Neurons and Networks is an introduction not just to neurobiology, but to all of behavioral neuroscience. It is an ideal text for first- or second-year college students with minimal college science exposure. It is also an invaluable resource for students in biology, psychology, anthropology, and computer science who seek an accessible guide to a discipline that will be a critically important area of research in the ...

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How the brain perceives our environment and controls our actions is a subject that we have only begun to understand during the 20th century. The pace of brain research has accelerated dramatically and neuroscience is now one of the most active branches of all the natural sciences. This illustrated book presents an introduction for beginning students and others that joins two major approaches to the field. First, since the brain - like any other organ - is made up of cells, Dowling covers the essentials of cellular and molecular neurobiology, introducing the specialized structure and function of individual nerve cells. In the second half of the book he presents an overview of integrative neuroscience, which describes the processing of information by aggregates of nerve cells, for it is from these networks of the nervous system that behaviour emerges.

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Though mathematical ideas underpin the study of neural networks, the author presents the fundamentals without the full mathematical apparatus. All aspects of the field are tackled, including artificial neurons as models of their real counterparts; the geometry of network action in pattern space; gradient descent methods, including back-propagation; associative memory and Hopfield nets; and self-organization and feature maps. The traditionally difficult topic of adaptive resonance theory is clarified within a hierarchical description of its operation. The book also includes several real-world examples to provide a concrete focus. This should enhance its appeal to those involved in the design, construction and management of networks in commercial environments and who wish to improve their understanding of network simulator packages. As a comprehensive and highly accessible introduction to one of the most important topics in cognitive and computer science, this volume should interest a wide range of readers, both students and professionals, in cognitive science, psychology, computer science and electrical engineering.

Neural Networks presents concepts of neural-network models and techniques of parallel distributed processing in a three-step approach: - A brief overview of the neural structure of the brain and

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the history of neural-network modeling introduces to associative memory, preceptrons, feature-sensitive networks, learning strategies, and practical applications. - The second part covers subjects like statistical physics of spin glasses, the mean-field theory of the Hopfield model, and the "space of interactions" approach to the storage capacity of neural networks. - The final part discusses nine programs with practical demonstrations of neural-network models. The software and source code in C are on a 3 1/2" MS-DOS diskette can be run with Microsoft, Borland, Turbo-C, or compatible compilers.

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This solid introduction uses the principles of physics and the tools of mathematics to approach fundamental questions of neuroscience.

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This tutorial text provides the reader with an understanding of artificial neural networks (ANNs), and their application, beginning with the biological systems which inspired them, through the learning methods that have been developed, and the data collection processes, to the many ways ANNs are being used today. The material is presented with a minimum of math (although the mathematical details are included in the appendices for interested readers), and with a maximum of hands-on experience. All specialized terms are included in a glossary. The result is a highly readable text that will teach the engineer the guiding principles necessary to use and apply artificial neural networks.

Completely revised and enlarged with six new chapters, the second edition of *Neurons and Networks* is an introduction not just to neurobiology, but to all of behavioral neuroscience. It is an ideal text for first- or second-year college students with minimal college science exposure.

Studying brain networks has become a truly interdisciplinary endeavor, attracting students and seasoned researchers alike from a wide variety of academic backgrounds. What has been lacking is an introductory textbook that brings together the different fields and provides a

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gentle introduction to the major concepts and findings in the emerging field of network neuroscience. Network Neuroscience is a one-stop-shop that is of equal use to the neurobiologist, who is interested in understanding the quantitative methods employed in network neuroscience, and to the physicist or engineer, who is interested in neuroscience applications of mathematical and engineering tools. The book spans 27 chapters that cover everything from individual cells all the way to complex network disorders such as depression and autism spectrum disorders. An additional 12 toolboxes provide the necessary background for making network neuroscience accessible independent of the reader's background. Dr. Flavio Frohlich

(www.networkneuroscientist.org) wrote this book based on his experience of mentoring dozens of trainees in the Frohlich Lab, from undergraduate students to senior researchers. The Frohlich lab (www.frohlichlab.org) pursues a unique and integrated vision that combines computer simulations, animal model studies, human studies, and clinical trials with the goal of developing novel brain stimulation treatments for psychiatric disorders. The book is based on a course he teaches at UNC that has attracted trainees from many different departments, including neuroscience, biomedical engineering, psychology, cell biology, physiology, neurology, and psychiatry. Dr. Frohlich has consistently received rave reviews for his teaching. With

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this book he hopes to make his integrated view of neuroscience available to trainees and researchers on a global scale. His goal is to make the book the training manual for the next generation of (network) neuroscientists, who will be fusing biology, engineering, and medicine to unravel the big questions about the brain and to revolutionize psychiatry and neurology. Easy-to-read, comprehensive introduction to the emerging field of network neuroscience Includes 27 chapters packed with information on topics from single neurons to complex network disorders such as depression and autism Features 12 toolboxes serve as primers to provide essential background knowledge in the fields of biology, mathematics, engineering, and physics

Neuronal Networks in Brain Function, CNS Disorders, and Therapeutics, edited by two leaders in the field, offers a current and complete review of what we know about neural networks. How the brain accomplishes many of its more complex tasks can only be understood via study of neuronal network control and network interactions. Large networks can undergo major functional changes, resulting in substantially different brain function and affecting everything from learning to the potential for epilepsy. With chapters authored by experts in each topic, this book advances the understanding of: How the brain carries out important tasks via networks How these networks

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interact in normal brain function Major mechanisms that control network function The interaction of the normal networks to produce more complex behaviors How brain disorders can result from abnormal interactions How therapy of disorders can be advanced through this network approach This book will benefit neuroscience researchers and graduate students with an interest in networks, as well as clinicians in neuroscience, pharmacology, and psychiatry dealing with neurobiological disorders. Utilizes perspectives and tools from various neuroscience subdisciplines (cellular, systems, physiologic), making the volume broadly relevant Chapters explore normal network function and control mechanisms, with an eye to improving therapies for brain disorders Reflects predominant disciplinary shift from an anatomical to a functional perspective of the brain Edited work with chapters authored by leaders in the field around the globe - the broadest, most expert coverage available

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