

these criteria. Synfuels fail on most of them. No process has stood out as uniquely promising. The federal government has been unwilling to push up the price of gasoline, and the cost of synfuels is not likely to fall dramatically. Nor do synfuels display advantages over natural fuels that would justify a higher price. Despite the 1973 shock, disruptions in the supply of petroleum have not been sufficiently frequent or severe, so far, to compel the oil majors to divert R&D heavily to synfuels.

A liquid fuels shortage is indeed likely in the next 40 years, but oil-from-coal technologies are not necessarily the best solution. The scale of the problem is too great for it to be overcome by production of synthetics. Most synthetic products succeed by transforming an abundant raw material into a higher priced commodity, as in the conversion of petroleum into synthetic rubber. The United States produces around 2 million tons of synthetic rubber a year. To replace just 15% of America's petroleum consumption, it would be necessary to produce that amount of synfuels each week. Furthermore, synfuels based on coal are inherently uneconomic. As petroleum reserves run dry, coal will escalate in price, since it will also be in demand as an alternative to oil for power generation, as a domestic fuel, and for chemical manufacture. Moreover, a significant number of synfuel plants would be required to make up the petroleum deficit, and they would be dusty and polluting. In the western United States there would also be problems of water supply. The current political problems surrounding nuclear power station construction indicate the difficulties that could be faced by synfuel producers. And even if all the technological, economic, and political problems were overcome, oil-from-coal technologies would only win America a breathing space of a hundred years or so given the size of economically unrecoverable U.S. coal reserves.

Effective solutions to the future liquid fuels crisis lie elsewhere. The federal government could do more to encourage the use of economical automobiles (and energy conservation generally) by raising fuel duties to levels found in other Western countries. All levels of government could adopt a long-term strategy of promoting public transportation at the expense of automobiles. There are alternative routes to liquid fuels. Carbon monoxide (from a variety of sources), and even carbon dioxide, can be reduced to methanol and higher-boiling products. Ethanol can be produced from renewable crops by fermentation and is already used for fuel in Brazil. Electricity is clearly the major energy source of the future, however pro-

duced, and more research into electric transportation would be a better use of federal funds than coal-based synfuels. DCL and other oil-from-coal technologies will ultimately fail, not because of a lack of commitment by the federal government but because they are a technological and economic dead-end.

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## Some Other Books of Interest

**Modulation of Defined Vertebrate Neural Circuits.** MICHAEL DAVIS, BARRY L. JACOBS, and RONALD I. SCHOENFELD, Eds. New York Academy of Sciences, New York, 1989. viii, 195 pp., illus. \$49. Annals of the New York Academy of Sciences, vol. 563. From a conference, Elbridge, MD, Sept. 1988.

This collection of 13 papers is concerned with "defining anatomically, chemically, and physiologically, the neural circuits that directly mediate specific physiological processes and behaviors," a circuit being defined as "a complete neural system in which the afferent and efferent pathways and the nuclei subserving a specific function are characterized." The functions or processes on which experimental work is reported or summarized include motor pattern selection in the turtle (Stein); the escape response in goldfish (Faber *et al.*); spinal cord reflexes in cat and rat (Barnes *et al.*); jaw control in mammals (Jacobs *et al.*) and birds (Zeigler); the blink reflex in rabbits (Evinger *et al.*); auditory space mapping in owls (Takahashi); modulation of breathing in mammals (Feldman and Smith); lordosis in rodents (Pfaff); auditory-motor interactions involved in bird song (Williams); and startle reflex in rats (Davis). The volume also includes a brief general discussion of withdrawal from pain in mammals (Fields and Heinricher) and a discussion of electromechanical analogs of human reflexes (Littman *et al.*).—K.L.

**Advances in Mutagenesis Research.** Vol. 1. G. Oas, Ed. Springer-Verlag, New York, 1990. x, 217 pp., illus. \$79.50.

The series *Advances in Mutagenesis Research* is intended to treat both basic and applied aspects of the subject—the molecular mechanisms leading to mutation and effects of mutagens introduced into the environment. In this first volume the opening paper, by H. Hayatsu, deals with "blue cotton," a form, discovered in 1983, bearing phthalocyanine pigment and useful in assaying mu-

tations in food. R. M. Speed next surveys the history of research on "meiosis in mammals and man." H. Nöthel, noting that mutations "are most often detrimental to their carriers [but] also represent the ultimate source of genetic variability," discusses mutagen-mutation equilibria in evolution with reference to *Drosophila*. R. Huber and M. Baechinger discuss the occurrence of micronuclei (accessory nuclear bodies in the cytoplasm) in human lymphocytes in response to exposure to chemicals or ionizing radiation, and C. Kessler expounds the use of non-radioactively labeled probes (such as ELISA) for detecting DNA sequences. In the last two papers, C. A. Smith and I. Mellon review research on the organization of DNA repair systems in rodents and humans, and F. K. Ennever considers the use of genotoxicity tests in risk assessment, noting that the issue "appeared simpler 15 years ago, when carcinogenicity appeared to be a rare property of chemicals, and the paradigm that 'carcinogens are mutagens' . . . had few counterexamples." That English is not the native language of all the contributors is evident in some chapters. The volume includes a subject index.—K.L.

## Books Received

**The Analysis of Directional Time Series.** Application to Wind Speed and Direction. Jon Breckling. Springer-Verlag, New York, 1989. vi, 218 pp., illus. Paper. \$23. Lecture Notes in Statistics, vol. 61.

**Anschäufobotanik am Zürichsee.** Ackerbau, Sammelwirtschaft und Umwelt von Neolithischen und Bronzezeitlichen Siedlungsanlagen im Raum Zürich. Stefanie Jacomet, Christoph Benesch, and Martin Dick. Festsch. Zürich, 1989. 348 pp., illus. SwF 129. *Berichte der Zürcher Denkmalpflege*, vol. 7.

**The Conquest of Water.** The Advent of Health in the Industrial Age. Jean-Pierre Goubert. Princeton University Press, Princeton, NJ, 1989. vi, 300 pp., illus. \$29.95. Translated from the French edition (Paris, 1986) by Andrew Wilson.

**Defence and Juvenile Crime.** Results from a National Policy Experiment. Anne L. Schneider. Springer-Verlag, New York, 1990. x, 127 pp., illus. \$49. *Research in Criminology*.

**Group Beliefs.** A Conception for Analyzing Group Structure, Processes, and Behavior. Daniel Bar-Tal. Springer-Verlag, New York, 1990. x, 140 pp. \$49.50. *Springer Series in Social Psychology*.

**Handbook of Physiology.** Section 6, The Gastrointestinal System. Vol. 3. Salivary, Gastric, Pancreatic, and Hepatobiliary Secretion. John G. Forte, Ed. 2nd ed. American Physiological Society, Bethesda, MD, 1989 (distribution, Oxford University Press, New York), x, 779 pp., illus. \$195.

**Inverse Schrödinger Scattering in Three Dimensions.** R. G. Newton. Springer-Verlag, New York, 1989. x, 170 pp. \$39.50. Texts and Monographs in Physics. **Maximum Likelihood Discrimination.** A Journey into Model-Based Signal Processing. Irvin M. Model. Springer-Verlag, New York, 1990. iv, 127 pp., illus. \$45.

**El Niño, La Niña, and the Southern Oscillation.** S. George Philander. Academic Press, San Diego, CA, 1989. x, 293 pp., illus. \$59.50. *International Geophysics Series*, vol. 46.

**Noyaux et Particules.** Modèles et Symétries. Luc Valentin. Hermann, Paris, 1989. x, 375 pp., illus. Paper. 196 F.

**Principles of Magnetic Resonance.** C. P. Slichter. 3rd ed. Springer-Verlag, New York, 1990. xi, 655 pp., illus. \$49.50. *Springer Series in Solid-State Sciences*, vol. 1.

# Modulation Of Defined Vertebrate Neural

**LM Reder**



## **Modulation Of Defined Vertebrate Neural:**

**Fundamentals of Neural Network Modeling** Randolph W. Parks, Daniel S. Levine, Debra L. Long, 1998 Provides an introduction to the neural network modeling of complex cognitive and neuropsychological processes Over the past few years computer modeling has become more prevalent in the clinical sciences as an alternative to traditional symbol processing models This book provides an introduction to the neural network modeling of complex cognitive and neuropsychological processes It is intended to make the neural network approach accessible to practicing neuropsychologists psychologists neurologists and psychiatrists It will also be a useful resource for computer scientists mathematicians and interdisciplinary cognitive neuroscientists The editors in their introduction and contributors explain the basic concepts behind modeling and avoid the use of high level mathematics The book is divided into four parts Part I provides an extensive but basic overview of neural network modeling including its history present and future trends It also includes chapters on attention memory and primate studies Part II discusses neural network models of behavioral states such as alcohol dependence learned helplessness depression and waking and sleeping Part III presents neural network models of neuropsychological tests such as the Wisconsin Card Sorting Task the Tower of Hanoi and the Stroop Test Finally part IV describes the application of neural network models to dementia models of acetylcholine and memory verbal fluency Parkinsons disease and Alzheimer s disease Contributors J Wesson Ashford Rajendra D Badgaiyan Jean P Banquet Yves Burnod Nelson Butters John Cardoso Agnes S Chan Jean Pierre Changeux Kerry L Coburn Jonathan D Cohen Laurent Cohen Jose L Contreras Vidal Antonio R Damasio Hanna Damasio Stanislas Dehaene Martha J Farah Joaquin M Fuster Philippe Gaussier Angelika Gissler Dylan G Harwood Michael E Hasselmo J Allan Hobson Sam Leven Daniel S Levine Debra L Long Roderick K Mahurin Raymond L Ownby Randolph W Parks Michael I Posner David P Salmon David Servan Schreiber Chantal E Stern Jeffrey P Sutton Lynette J Tippet Daniel Tranel Bradley Wyble      Neurobiology of Motor Programme Selection J. Kien, C.R. McCrohan, W. Winlow, 2013-10-22 The traditional view of motor systems as a linear chain of elements switched on and off by command neurons has become increasingly difficult to maintain in the face of accumulating evidence against the existence of command elements So far however the general formulation of an alternative approach has been lacking This book by summarising the evidence against the linear approach to motor systems argues forcefully against it Analyses are presented of motor systems ranging from the lobster stomatogastric system through molluscan systems leech movement insect singing and locomotion fish and amphibian behaviour to goal directed movements in primates and volitional movements in humans Comparison of these motor systems reveal the existence of some general principles underlying motor control and behavioural choice such that motor systems appear generally to be parallel distributed processing networks By discussing the treatment of motor systems in terms of parallel distributed processing systems this book presents in concentrated form an alternative to the earlier view of motor systems As such the book is a must for all neuroscientists interested in the organisation of motor

systems and the neuronal substrates of behavioural choice      *Drugs for the Control of Epilepsy* Carl L. Faingold, Gerhard H. Fromm, 2019-06-04 Originally published in 1991 This book brings together the ideas of an international group of experts on clinical and experimental epilepsy These authors consider how antiepileptic drugs may act on elements of neuronal networks to reduce seizure incidence and severity The book addresses such topics as the four general classes of anticonvulsant drug mechanisms major epilepsy models the proposed mechanisms of action of major antiepileptic drugs and the clinical use of antiepileptic drugs in the treatment of various forms of human epilepsy This volume is special for its focus on the neuronal network approach to epilepsy as well as for its comprehensive review and integration of human and animal data Neurologists pharmacologists psychiatrists and other investigators actively working on epilepsy research will find this book to be a useful thought provoking reference volume      Modulation of Defined Vertebrate Neural Circuits Michael Davis, Barry L. Jacobs, Ronald Schoenfeld, 1989-01-01      *The Development and Integration of Behaviour* Paul Patrick Gordon Bateson, 1991-05-30 What regularities lie behind the development and organization of behaviour in animals and humans One theme emerging from this book is that ideas have to flow in both directions between the different levels of analysis between the neural and behavioural levels and between the individual and the social group Another theme is that it is not enough to identify the many factors operating in the development and integration of behaviour The processes must also be studied directly Bringing together work at different levels and studying behavioural dynamics require more knowledge and expertise than any one person can usually command Links have to be made between different disciplines and specialists have to learn to work with others who speak with what at first seem to be mutually incomprehensible scientific languages The book illustrates how this may be achieved The themes of this book are strongly related to the approach of Robert Hinde in whose honour the chapters were written      **Sleep and Its Secrets** Michael S. Aronoff, 2013-11-11      Respiratory Control Dexter F. Speck, Michael S. Dekin, W. Robert Revelette, Donald A. Frazier, 2021-12-15 Understanding of the respiratory control system has been greatly improved by technological and methodological advances This volume integrates results from many perspectives brings together diverse approaches to the investigations and represents important additions to the field of neural control of breathing Topics include membrane properties of respiratory neurons in vitro studies of respiratory control chemical neuroanatomy central integration of respiratory afferents modulation of respiratory pattern by peripheral afferents respiratory chemoreception development of respiratory control behavioral control of breathing and human ventilatory control Forty seven experts in the field report research and discuss novel issues facing future investigations in this collection of papers from an international conference of nearly two hundred leading scientists held in October 1990 This research is of vital importance to respiratory physiologists and those in neurosciences and neurobiology who work with integrative sensory and motor systems and is pertinent to both basic and clinical investigations Respiratory Control is destined to be widely cited because of the strength of the contributors and the dearth of similar works      **National Library of Medicine Current**

**Catalog** National Library of Medicine (U.S.),1990      **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70      Locomotor Neural Mechanisms in Arthropods and Vertebrates David M. Armstrong,Brian M. H. Bush,1991      Brain, Behavior and Evolution ,1995      **Respiratory Control** Dexter F. Speck, Michael S. Dekin, W. Robert Revelette, Donald A. Frazier,      **Cumulated Index Medicus** ,1989      Neurobiology of Mastication - from Molecular to Systems Approach Yoshio Nakamura,1999 Hardbound Masticatory movements are characterized by rhythmicity and diversity of patterns of jaw tongue and facial movements that vary depending on the species and the food ingested In recent years the research field into the neural machinery of mastication has been greatly expanded to encompass a wider field of neuroscience including a variety of biological and engineering disciplines Thus an international group of scientists who are actively involved in research of the neural mechanisms underlying motor sensory and autonomic functions related to mastication gathered together in Tokyo Japan to present a symposium on Neurobiology of Mastication The primary purpose of the meeting was to provide in depth review of our current understanding of the neural mechanisms controlling masticatory movements by integrating the recent progress in this research field from the molecular to systems approaches The oral presentations reviewed recent advance      **The Visual System in Vertebrates** F. Crescitelli,2013-12-11 The vertebrate eye has been and continues to be an object of interest and of inquiry for biologists physicists chemists psychologists and others Quite apart from its important role in the development of ophthalmology and related medical disciplines the vertebrate eye is an exemplar of the ingenuity of living systems in adapting to the diverse and changing environments in which vertebrates have evolved The wonder is not so much that the visual system like other body systems has been able to adapt in this way but rather that these adaptations have taken such a variety of forms In a previous volume in this series VII I Eakin expressed admiration for the diversity of invertebrate photoreceptors A comparable situation exists for the vertebrate eye as a whole and one object of this volume is to present to the reader the nature of this diversity One result of this diversification of ocular structures and properties is that the experimental biologist has available a number of systems for study that are unique or especially favorable for the investigation of particular questions in visual science or neurobiology This volume includes some examples of progress made by the use of such specially selected vertebrate systems It is our hope that this comparative approach will continue to reveal new and useful preparations for the examination of important questions      **A Comparison of Lingual Movement in Swallowing and Speech Production** Ruth Elaine Martin,1991      **Comparative Studies of Hearing in Vertebrates** A. N. Popper,R. R. Fay,2012-12-06 The past two decades have seen an extraordinary growth of interest in the auditory mechanisms of a wide range of vertebrates and invertebrates Investigations have ranged from auditory mechanisms in relatively simple animals where just a few cells are employed for detection of sound to the highly complex detection and processing systems of man and the other mammals Of particular significance to us has been the growing interest in general principles of vertebrate auditory system organization as

opposed to a specific and limited concern for the mammalian or even human systems. Some of the interest in nonmammalian systems has risen from the desire to find simpler experimental models for both the essential components e.g. the hair cell receptor and the more complex functions e.g. frequency analysis of all vertebrate auditory systems. Interest has also risen from questions about the evolution of hearing and the covariation or lack of it in structure and function in a wide variety of biological solutions to the problems of acoustic mechanoreception. Of course the desire to find simpler experimental models and the need to answer questions about the evolution of hearing are not unrelated. In fact detailed analyses of a variety of systems have led several times to the realization that some of the simple systems are more complex than initially thought.

**Genesis of Episodic Breathing in Reptiles** Mark Alan Douse, 1990 **Annals of the New York Academy of Sciences** Thomas Lincoln Casey, Gilbert Van Ingen, Charles Lane Poor, Edmund Otis Hovey, Ralph Winfred Tower, 2003. Records of meetings 1808-1916 in v 11: 27. **The Neuroscience of Fair Play** Donald W. Pfaff, 2007. Many scholars using anthropology, psychology, and evolution argue that our ethical and moral life evolved from nature. Distinguished neuroscientist Donald W. Pfaff, Ph.D., takes that proposition a critical step further right to the basics: brain signals. In this first book to describe how ethics may be a hardwired function of the human brain, Pfaff explains how specific brain circuits cause us to consider an action toward another as if it were happening to us, prompting us to treat others as we wish to be treated ourselves. Pfaff presents a rock-solid hypothesis of why humans across time and geography have such similar notions of good and bad, right and wrong. Book jacket.

## **Modulation Of Defined Vertebrate Neural** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Modulation Of Defined Vertebrate Neural**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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## Modulation Of Defined Vertebrate Neural Introduction

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