

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. vii, 218 pp., illus. Paper. \$23. Lecture Notes in Statistics, vol. 61.

Anschäuerbotanik 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. Irwin 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.

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Modulation of Defined Vertebrate Neural Circuits Michael Davis, Barry L. Jacobs, Ronald Schoenfeld, 1989-01-01

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 **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 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1990

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 **Sleep and Its Secrets** Michael S. Aronoff,2013-11-11 **Dynamics and Modulation of Synaptic Transmission in the Mammalian CNS** Maria Elisa Calcagnotto,Alberto A. Rasia-Filho,Idan Segev,2019-06-21 *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **Directory of Published Proceedings** ,1991 *Brain, Behavior and Evolution* ,1995 **Neurophenotypes** Vinoth Jagaroo,Susan L. Santangelo,2017-02-24

The interest in biomarkers seen across a spectrum of biomedical disciplines reflects the rise of molecular biology and genetics A host of omics disciplines in addition to genomics marked by multidimensional data and complex analyses and enabled by bioinformatics have pushed the trajectory of biomarker development even further They have also made more tractable the complex mappings of genotypes to phenotypes genome to phenome mapping to which the concept of a biomarker is central Genomic investigations of the brain are beginning to reveal spectacular associations between genes and neural systems Neural and cognitive phenomics are considered a necessary complement to genomics of the brain Other major omics developments such as connectomics the comprehensive mapping of neurons and neural networks are heralding brain maps of unprecedented detail Such developments are defining a new era of brain science And in this new research environment neural systems and cognitive operations are pressed for new kinds of definitions that facilitate brain behavioral alignment in an omics operating environment This volume explores the topic of markers framed around the constructs of cognitive and neural systems Neurophenotype is a term adopted to describe a neural or cognitive marker that can be scientifically described within an associative framework and while the genome to phenome framework is the most recognized of these epigenetics and non gene regulated neural dynamics also suggest other frameworks In either case the term neurophenotype defines operational constructs of brain behavioral domains that serve the integration of these domains with neuroscientific and omics models of the brain The topic is critically important to psychiatry and neuropsychology Neurophenotypes offer a format and a language by which psychiatry and neuropsychology can be in step with the brain sciences They also bring a new challenge to the clinical neurosciences in terms of construct validation and refinement Topics covered in the volume include Brain and cognition in the omics era Phenomics connectomics and Research Domain Criteria Circuit based neurophenotypes and complications posed by non gene regulated factors The legacy of the endophenotype concept its utility and limitations Various potential neurophenotypes of relevance to clinical neuroscience including Response Inhibition Fear Conditioning and Extinction Error Processing Reward Dependence and Reward Deficiency Face Perception and Language Phenotypes Dynamic electrophysiological and computational neurophenotypes The challenge of a cultural shift for psychiatry and neuropsychology The volume may be especially relevant to researchers and clinical practitioners in psychiatry and neuropsychology and to cognitive neuroscientists interested in the intersection of neuroscience with genomics phenomics and other omics disciplines Modulation of Behavioral Outcomes by Conditioning Competing States, Valences, or Responses Jacqueline Rose,Adam Roberts,Kristin M. Scaplen,Sheri Mizumori,2022-10-03

Hormones, Brain and Behavior, 2016-11-09 *Hormones Brain and Behavior* Third Edition offers a state of the art overview of hormonally mediated behaviors including an extensive discussion of the effects of hormones on insects fish amphibians birds rodents and humans Entries have been carefully designed to provide a valuable source of information for students and researchers in neuroendocrinology and those working in related areas such as biology psychology psychiatry and neurology This third edition has been substantially restructured to include both foundational information and recent developments in the field Continuing the emphasis on interdisciplinary research and practical applications the book includes articles aligned in five main subject sections with new chapters included on genetic and genomic techniques and clinical investigations This reference provides unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics The topics cover an unusual breadth from molecules to ecophysiology ranging from basic science to clinical research making this reference of interest to a broad range of scientists in a variety of fields Comprehensive and updated coverage of a rapidly growing field of research Unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics Covers an unusual breadth of topics and subject fields ranging from molecules to ecophysiology and from basic science to clinical research Ideal resource for interdisciplinary learning and understanding in the fields of hormones and behavior **Neuromodulatory**

Control of Spinal Function in Health and Disease Brian R. Noga, Shawn Hochman, Hans Hultborn, 2020-02-20

Biomedical Index to PHS-supported Research, 1995 Revisiting Behavioral Variability: What It Reveals About Neural Circuit Structure and Function Kenta Asahina, Benjamin L. De Bivort, Ilona C. Grunwald Kadow, Nilay Yapici, 2022-08-23

Hormones and Reproduction of Vertebrates, Volume 5 David O. Norris, Kristin H. Lopez, 2024-08-08 *Hormones and Reproduction of Vertebrates Volume 5 Mammals* is the fifth of five second edition volumes representing a comprehensive and integrated overview of hormones and reproduction in fishes amphibians reptiles birds and mammals The book includes coverage of endocrinology neuroendocrinology physiology behavior and anatomy of reptilian reproduction It provides a broad treatment of the roles of pituitary thyroid adrenal and gonadal hormones in all aspects of reproduction as well as descriptions of major life history events New to this edition is a concluding assessment of the effect of environmental influences on mammals Initial chapters in this book broadly examine sex determination reproductive neuroendocrinology stress and hormonal regulation as it relates to male and female reproductive structure and function Subsequent chapters introduce the evolution of viviparity and examine pregnancy in eutherian mammals parturition pheromones and behavioral neuroendocrinology Covered taxa include rodents bats and primates The book concludes with an examination of the environmental influences on hormones and reproduction of mammals including endocrine disrupting chemicals and climate change *Hormones and Reproduction of Vertebrates Volume 5 Mammals* is designed to provide a readable coordinated description of reproductive basics in mammals as well as an introduction to the latest trends in reproductive research and a

presentation of our understanding of reproductive events gained over the past decade It may serve as a stand alone reference for researchers and practitioners in the field of mammology or as one of five coordinated references aligned to provide topical treatment across vertebrate taxa for researchers practitioners and students focused on vertebrate endocrinology Covers endocrinology neuroendocrinology physiology behavior and anatomy of mammalian reproduction Includes pituitary thyroid adrenal and gonadal hormones Focuses on rodents bats primates ungulates carnivores and marine mammals Provides new coverage on endocrine disrupting chemicals and climate change Dysfunction and Repair of Neural Circuits for Motor Control John Martin,George Mentis,Andrew Paul Tosolini,2021-04-21

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