

The book is arranged in four sections. The first consists of a single paper by Allen Newell surveying the field of artificial intelligence from several points of view and trying to explain why anybody should do such work. Unfortunately the paper was written some years ago and does not cover the sort of work on language and the representation of knowledge and belief to which much of the volume is devoted.

The next two sections cover theories about the mental programs that determine how we interpret and react to language. The writers in the first of these sections (Schank, Simmons, Wilks, and Winograd) put their emphasis on sophisticated techniques for discovering and representing the literal meanings of utterances. Colby and Abelson, who follow, are content with a cruder linguistic analysis and are more concerned with what significance the utterance has for the hearer. Colby's model of paranoid behavior, for instance, is concerned primarily with detecting the degree of hostility in the remarks addressed to it, and can do this to some extent by simply noting references to certain topics, without always recognizing what is being said about them. Abelson's simulation of a right-wing political ideologue is primed with a "masterscript" for world events, representing the myths by which it lives, and it tries to relate everything it is asked or told to this script. The only events it believes possible are the kind that occur in the script—that is, the Free World might defend neutral nations, but will never attack them—and, given an event that matches the script, the program is willing to predict what will happen next and ascribe motives to the actors involved.

The other four authors are interested primarily in advertising the merits of various theoretical tools for studying language. Winograd advocates the representation of knowledge by procedures—he wants to view knowing as largely a matter of knowing how—while Wilks uses "paraplates," Simmons "semantic networks," and Schank "conceptual dependency," a scheme for building up complicated concepts out of simpler ones that is also used by Abelson later on. Only Winograd describes a program that is sufficiently impressive in itself to force us to take his ideas seriously. The techniques of the others have to get by on whatever intuitive appeal they can muster.

Winograd's program displays a scene, consisting of a collection of blocks, on a television screen. It moves the blocks

about on command and answers questions both about the scene and about its own actions. It is capable of understanding a wide range of English constructions.

The final section of the book consists of three papers, by Earl Hunt, Robert K. Lindsay, and Joseph D. Becker, using computational terminology to discuss some of the properties of human memory. Hunt, for example, suggests that "man is describable as a dual processor, dual memory system with extensive input-output buffering within each system." These writers are more concerned than the others to have their models learn from experience, but there is no serious attempt to account for the learning of skills as complex as those discussed in the previous sections.

The editors say in the preface that the collection "has been compiled to present more extensive information than that already disseminated in journal descriptions of artificial intelligence." They do not entirely succeed in this awkwardly expressed aim because the papers are mostly condensed or reworked versions of material that has appeared elsewhere and the reader often finds himself referred to the original for details. The book does afford a glimpse of some of the big names in the field, and, with its extensive bibliography, it provides a useful entry into the maze of literature on artificial intelligence. The students for whom it is evidently intended may find \$13.50 a bit steep for such a service, however, especially in a rapidly changing area.

Finally, there are a number of misprints (especially in Newell's paper) and there is some hideous prose. A supposed authority on language should not write sentences like "one basic assumption presented in this work is that since it is true that people can understand natural language, it should be possible to imitate the human understanding process on a computer, if it is possible to state those processes explicitly" (Schank, p. 187). It is sometimes difficult to guess whether a sentence has been garbled by the author or the typesetter, as with "a semantic network is a structure that contains meanings of language arranged in network" (Simmons, p. 77). In either case, the editors were asleep at the switch.

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Regulators of Water Intake

The Neuropsychology of Thirst. New Findings and Advances in Concepts. A conference, Philadelphia, Dec. 1971. ALAN N. ERSTEIN, HARRY R. KISSILEFF, and ELIOT STELLAR, Eds. Winston, Washington, D.C., 1973 (distributor, Halsted [Wiley], New York). xviii, 358 pp., illus. \$17.50.

Textbooks of physiology have universally emphasized the kidney as the prime maintainer of body water, and thirst has received relatively little attention. Except in a few species such as some desert-adapted rodents, the kidney alone cannot maintain body fluids, however, and periodic water intake is necessary. This volume would serve a valuable function even if its only virtue were that it points up the importance of thirst and the precision of its regulation.

The first chapters are devoted to the internal stimuli and the receptors that activate thirst. These chapters (by Blass, Peck, and Stricker) make it clear that fluid intake is controlled by extracellular fluid changes as well as by the more familiar intracellular or cellular dehydration mechanism. In fact the role of the latter mechanism is now in question. Andersson, one of the original proponents of the cellular dehydration hypothesis, has now altered his position and argues, in a rebuttal to the chapters of Blass and Peck, that specific Na^+ receptors are more important in thirst than are dehydration receptors. Notwithstanding this controversy, these chapters make clear that much progress has been made since the time the cellular dehydration hypothesis, let alone the "dry mouth" hypothesis, was considered a complete explanation of thirst.

The papers on central neural mechanisms in thirst are perhaps the least satisfying ones of the book, not because they are of lower quality but because they appear to be more concerned with the validity of central electrical stimulation as a research tool than with thirst directly. Mogenson's chapter is the one most concerned with thirst, yet it still directs much attention to the methodological problems of brain stimulation. Teitelbaum and Valenstein's chapters are concerned almost exclusively with methodological questions. For someone using this book to illustrate problems in physiological and behavioral research, however, this section might be the most useful of all.

Neuropsychology Of Thirst New Findings And Advances In Concepts

John R. Claybaugh, Charles E. Wade



Neuropsychology Of Thirst New Findings And Advances In Concepts:

Thirst Barbara J. Rolls, Edmund T. Rolls, 1982-03-18 This book describes the control of thirst and water intake and the physiology and psychology of drinking **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1974 First multi year cumulation covers six years 1965 70 The Physiology of Thirst and Sodium Appetite G. de Caro, A.N. Epstein, M. Massi, 2013-12-11 The behavioral neuroscience of thirst and sodium appetite are research ventures that have expanded dramatically in recent years Work done in the mid 1950s and early 1960s made it clear that drinking behavior could be affected by direct manipulations of the brain especially by brain damage and by pharmacological treatments Since that time experimental approaches have diversified and the research enterprise has attracted the interest of a broad international community of scientists Many aspects of both thirst and sodium appetite are being studied The most prominent of these are 1 phylogenetic and ontogenetic aspects of the phenomena of drinking behavior 2 the mechanisms of a variety of dipsogenic and antidipsogenic treatments both drugs and hormones 3 the biological controls of drinking and their interaction with the regulation of blood volume and blood pressure 4 the peripheral signals of drinking including the role of the baro and volume receptors 5 the receptor systems within the brain and the neuroanatomical circuitry for thirst and sodium appetite and 6 the possible roles of brain sodium and of the hormones of sodium conservation In the arousal of sodium appetite This acceleration of basic research activity has given insights into the clinical disorders of thirst and salt appetite and has produced pharmacological agents of potential therapeutic use The Physiology of Thirst and Sodium Appetite James Thomas Fitzsimons, 1979-10-18 Bibliography of the History of Medicine, **Understanding Motivation and Emotion** Johnmarshall Reeve, 2018-01-18 The past ten years have seen an explosion of useful research surrounding human motivation and emotion new insights allow researchers to answer the perennial questions including What do people want and Why do they want what they want By delving into the roots of motivation the emotional processes at work and the impacts on learning performance and well being this book provides a toolbox of practical interventions and approaches for use in a wide variety of settings In the midst of the field's golden age there has never been a better time to merge new understanding and practical application to improve people's lives Useful in schools the workplace clinical settings health care sports industry business and even interpersonal relationships these concepts are profoundly powerful incorporated into the state of the art intervention programs detailed here they can enhance people's motivation emotion and outlook while answering the core questions of any human interaction *Hormonal Regulation of Fluid and Electrolytes* John R. Claybaugh, Charles E. Wade, 2012-12-06 The concept of this book has developed over the past fifteen years as interest in the water and electrolyte disturbances associated with most environmental settings moved from a research area of descriptive discovery to one dealing with the mechanisms responsible for the previously observed disturbances Most of the contributing authors have been involved in both aspects of this evolution of research focusing on those problems associated with body fluid and electrolyte

balance and searching for hormonal explanations What did not accompany this transition however was a source of information encompassing the area of interest Instead the previous format of environmentally focused symposia reviews and books continued to be the only sources available For instance various books deal with the physiology of high altitude space or exercise but do not necessarily provide adequate coverage of water and electrolyte disturbances To our knowledge the format of this book is unique We have made the central focus water and electrolyte physiology with an emphasis on endocrinology and tried to comprehensively cover this area of physiology in some of the more heavily studied environments This book too then will have its limitations in coverage For instance in depth coverage of the respiratory and cardiovascular responses to the high altitude environment will not be found but since these areas are so integrally associated with water and electrolyte regulation they are not ignored

Control Mechanisms of Drinking G. Peters, J.T. Fitzsimons, L. Peters-Haefeli, 2012-12-06 Practically all the chapters in this volume present It is possible that the cerebral contain new and previously unpublished system has a neurotransmitter role espe research reports and reviews on the phys cially as intracerebral angiotensin induced iological mechanisms which induce drink drinking seems to depend on catecholami ing of non nutritive fluids Though based nergic perhaps dopaminergic systems on a Symposium on Thirst we have not However we were also reminded that called the volume by this title because there are cholinergic drinking systems in thirst as such a subjective human sensa the brain at least of the rat and that tion is not in fact discussed in these pages vasopressin increases the sensitivity of The main section headings in the list of drinking systems in the brain of the dog contents give an idea of the topics dealt An apres Cannon role for oropharynx with and it is evident from these that a geal factors in the control of water intake is large number of contributions deal with becoming firmly established There is a the possible role of the renin angiotensin need to take water by mouth The self in system in the control of water intake One travenous injection experiments described difficulty until now in accepting the sugges here make this very clear

Elements of Ethology D. Wood-Gush, 2012-12-06 The object of this book is to introduce ethology to agricultural and veterinary students Today ethology covers many approaches to the study of animal behaviour which are connected by one unifying concept all behaviour must be considered in relation to the ecology and evolutionary history of the species under investigation This may seem to some to put domesticated animals beyond the scope of classical ethology but while domestication has involved some behavioural changes we shall see that much of the behaviour of our species of farm livestock differs little from that of their putative ancestors It is assumed that students using this book will already have studied some physiology It is also assumed that they are essentially practically minded and with this factor in mind I have discussed behaviour in terms of its function introducing the principles of ethology within functional categories of behaviour In order to best illustrate these principles I have taken examples from a variety of species and not confmed myself to farm livestock and domestic animals for fundamental ethological research with these species has been patchy However at the end of each chapter I have given a list

of papers pertaining to farm livestock so that the principles of ethology can be seen in a more practical context and to develop this approach further I have also added some practical problems for discussion at the end of each chapter

Perceptions and Representations Keith Oatley, 2017-03-16 Originally published in 1978 this study examines the shortcomings of some theoretical approaches to psychological and neurophysiological mechanisms at the time Keith Oatley illustrates the extent of these shortcomings by showing how inefficient brain researchers using their present approaches would be in trying to understand a computer which is considerably simpler than the human brain He concludes that we need better theories than those usually espoused in psychology and goes on to expound a theory of cognitive representation and inference in perception which began with Helmholtz more than a hundred years ago but which can now be given substance and formal structure in artificial intelligence programs The author deploys this theory to give an account of some fundamental problems such as how we see a three dimensional world and how the brain copes so well with incomplete sensory data and with damage to its own components

Progress in Psychobiology and Physiological Psychology James M. Sprague, Alan N. Epstein, 2013-10-22 Progress in Psychobiology and Physiological Psychology Volume 9 reviews developments in the fields of psychobiology and physiological psychology with emphasis on selected areas of research relating brain mechanisms and behavior Topics covered range from sensory perceptual systems in mammals to behavioral modulation of visual responses in monkeys Brain pathways for vocal learning in birds are also examined along with neural mechanisms in taste aversion learning Comprised of seven chapters this volume begins with an insightful account of the evolution of concepts regarding cortical organization relevant to perception in mammals Studies of single unit activity in awake behaving monkeys are then presented followed by a discussion on the neural control of song in birds In particular the brain pathways involved in vocal learning in birds are defined anatomically and physiologically including the presence of hemispheric dominance and the sensitivity to steroid hormones Subsequent chapters focus on the response characteristics of the cells in the forebrain that give stimuli their significance for associative learning the neuropsychological mechanisms of taste aversion learning and the psychobiology of thirst The final chapter is devoted to the pineal gland and its anatomical connection to the eyes together with pineal hormones polypeptides and proteins This book should appeal to biologists psychologists and physiologists

Thirst David J. Ramsay, David Booth, 2012-12-06 At one time or another everyone has said I am thirsty Yet what causes this sensation of thirst It is obvious that a certain quantity of fluid must be present for the body to function normally How does a water deficit in the body then influence drinking habits But supposing the physiological need is met what about the psychological need or social need Water is certainly the most necessary fluid then why do we humans often prefer other beverages even at great cost of effort or money or health The subject of thirst and drinking behavior are uniquely discussed in this book For the first time both the physiological and the psychological aspects of water and beverage consumption are examined in one volume The many recent developments concerning how a lack of water is

signalled physiologically and processed neurally to affect drinking behavior are critically surveyed Prospects for understanding the cultural and sensory influences on beverage consumption are mapped out The thirty one chapters by authorities in the field were all mutually reviewed and revised in the light of precirculated comments and round table discussions Together they provide a complete picture of the current state of knowledge on what determines fluid consumption in human beings and animals **American Journal of Physiology** ,1976 Volumes for 1898 1941 1948 56 include the Society s proceedings primarily abstracts of papers presented at the 10th 53rd annual meetings and the 1948 56 fall meetings *Drugs, Neurotransmitters, and Behavior* Leslie Iversen,2013-11-11 The first six volumes of the Handbook reviewed basic neuropharmacology drawing on expertise in biochemistry pharmacology and electrophysiology The next three volumes focus attention on the functional importance of these basic neuropharmacological mechanisms for normal behavior In order to study this interface in the intact functioning organism appropriate methods for describing and quantifying behavior must be developed The past twenty years have witnessed a revolution in the study of behavior which has taken us away from the often fruitless theoretical arguments to descriptive behaviorism Technical achievements in the design of apparatus and the recording of behavior played an important role in these and the resultant behavioral methods have been accepted and developments found useful in studying the effects of drugs The development of psycho pharmacology as a discipline owes as much to these behavioral methods as it does to the basic neuropharmacological techniques pioneered for in vitro studies In the first section of Volume 7 an effort has been made to provide reviews both of theory and practice in behavioral science Milner s chapter deals with the concept of motivation in a theoretical framework By contrast the chapters by Morse et al and Dews and DeWeese provide a more descriptive view of the various ways in which aversive stimuli control behavior and the importance of schedules of reinforcement in determining the profile of responding in the animal The equal importance of observational behavioral methods is well illustrated by Mackintosh et al *Neuroethology* J.-P. Ewert,2012-12-06 Historically the search for the neural bases of behavior goes back a long way Neuroethology which is concerned with the experimental analysis of the releasing and control mechanisms of behavior is a young discipline Results from this multidisciplinary branch of research which uses physical chemical and mathematical methods have not yet been extensively treated in textbooks of neurophysiology and ethology This book is intended as a first attempt to pose major questions of neuroethology and to demonstrate by means of selected research examples some of the ways by which these questions are being approached Inevitably this cannot be a complete and in depth detailed treatment of all of the neurobiology examples and I realize that such a selection is of a subjective nature The overall goal of the book is to present an introduction After outlining some of the very basic neurophysiological and ethological concepts Chaps 2 and 3 neuroethological questions and methods are demonstrated extensively by means of a particular example Chap 4 There are two reasons to choose the visually guided prey catching and avoidance behavior of the Common Toad 1 it is a system which I

have investigated for about fifteen years and therefore know best 2 the toad story is one of the most comprehensive neuroethological approaches so far Thus it is possible here to outline the major concepts of neuroethology and to pose the basic questions **Psychology, Fourth Edition** Peter O. Gray, 2002 The new edition of Gray's acclaimed text featuring dramatic new coverage of sensation and perception and new media tools that actively involve students in psychological research

Neurobiology of Food and Fluid Intake Edward M. Stricker, Stephen Woods, 2006-05-04 Like previous handbooks the present volume is an authoritative and up to date compendium of information and perspective on the neurobiology of ingestive behaviors It is intended to be stimulating and informative to the practitioner whether neophyte or senior scholar It is also intended to be accessible to others who do not investigate the biological bases of food and fluid ingestion who may teach aspects of this material or simply wonder about the current state of the field To all readers we present this handbook as a progress report recognizing that the present state of the field is much farther along than it was the last time a handbook was published but mindful of the likelihood that it is not as far along as it will be when the next handbook is prepared This field has witnessed a spectacular accretion of scientific information since the first handbook was published in 1967 During the generation of science between then and the publication of the second handbook in 1990 numerous scientific reports have substantially changed the perspective and informational base of the field Perspectives in Chemoreception and Behavior R.F. Chapman, E.A. Bernays, J.G. Jr. Stoffolano, 2012-12-06 In the study of the physiological basis of animal behavior Vince Dethier has been a pioneer a guiding star Although his own work has centered on the blowfly and the caterpillar his interests and influence have spread far beyond the insects The breadth of this impact is indicated by the contributions from colleagues and former students in this volume These papers were originally presented at a meeting to honor Vince's 70th birthday held at the University of Massachusetts Amherst in May 1985 It was attended by friends and colleagues of all ages from many parts of the world However the picture presented by these papers is not the whole story What it does not show is the extent of Vince's interest and influence beyond the rigorous though friendly atmosphere of the research laboratory His idyllic summers in Maine have produced studies on the natural history of feeding by insects culminating in *The Tent Makers* with more to come In these studies we see his real love and dare we say understanding of the insect Vince Dethier is not concerned simply with reaching the established scientist In *To Know a Fly* he reaches out to those just beginning perhaps even to those who will never begin and provides insight both to the experimentalist's approach and to the fun of research His sense of fun and his elegant fluent writing have given us too his tongue in cheek fictional writings for children of all ages

Handbook of Neuroscience for the Behavioral Sciences, Volume 2 Gary G. Berntson, John T. Cacioppo, 2009-10-12 As technology has made imaging of the brain noninvasive and inexpensive nearly every psychologist in every subfield is using pictures of the brain to show biological connections to feelings and behavior *Handbook of Neuroscience for the Behavioral Sciences Volume II* provides psychologists and other behavioral scientists with a solid foundation in the increasingly critical

field of neuroscience Current and accessible this volume provides the information they need to understand the new biological bases research tools and implications of brain and gene research as it relates to psychology **Thirst and Body Fluid Regulation** Neil E. Rowland, 2021-12-16 This book blends new and historical research to present experiments theories and discoveries in fluid regulation thirst and drinking

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