Sleep and Dreaming

Scientific Advances and Reconsiderations

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Sleep And Dreaming Scientific Advances And Reconsiderations

Robert J. Hoss,Katja Valli Ph.D.,Robert P. Gongloff

Sleep And Dreaming Scientific Advances And Reconsiderations:

Sleep and Dreaming Edward F. Pace-Schott,2003-02-27 How and why does the sleeping brain generate dreams Though the question is old a paradigm shift is now occurring in the science of sleep and dreaming that is making room for new answers From brainstem based models of sleep cycle control research is moving toward combined brainstem forebrain models of sleep cognition itself The book presents five papers by leading scientists at the center of the current firmament and more than seventy five commentaries on those papers by nearly all of the other leading authorities in the field Topics include mechanisms of dreaming and REM sleep memory consolidation in REM sleep and an evolutionary hypothesis of the function of dreaming The papers and commentaries together with the authors rejoinders represent a huge leap forward in our understanding of the sleeping and dreaming brain The book s multidisciplinary perspective will appeal to students and researchers in neuroscience cognitive science and psychology **The Limits of Dream** J. F. Pagel,2010-07-28 The Limits of Dream focuses on what we currently know of the human central nervous system CNS examining the basic sciences of neurochemisty neuroanatomy and CNS electrophysiology as these sciences apply to dream then reaching beyond basic science to examine the cognitive science of dreaming including the processes of memory the perceptual interface and visual imagery Building on what is known of intrapersonal CNS processing the book steps outside the physical body to explore artificially created dreams and their use in filmmaking art and story as well as the role of dreaming in creative process and creative madness The limits of our scientific knowledge of dream frame this window that can be used to explore the border between body and mind What is known scientifically of the cognitive process of dreaming will lead the neuroscientist the student of cognitive science and the general reader down different paths than expected into an exploration of the fuzzy and complex horizon between mind and brain The clearest presentation of research and philosophy currently available relating to the mind brain interface Discusses the cognitive processes of dreaming utilized in film and artificial intelligence Describes the functioning of dream in the creative process , **Machine Dreaming and Consciousness** J. F. Pagel,Philip Kirshtein,2017-04-13 Machine Dreaming and Consciousness is the first book to discuss the questions raised by the advent of machine dreaming Artificial intelligence AI systems meeting criteria of primary and self reflexive consciousness are often utilized to extend the human interface creating waking experiences that resemble the human dream Surprisingly AI systems also easily meet all human based operational criteria for dreaming These dreams are far different from anthropomorphic dreaming including such processes as fuzzy logic liquid illogic and integration instability all processes that may be necessary in both biologic and artificial systems to extend creative capacity Today multi linear AI systems are being built to resemble the structural framework of the human central nervous system The creation of the biologic framework of dreaming emotions associative memories and visual imagery is well within our technical capacity AI dreams potentially portend the further development of consciousness in these systems This focus on AI dreaming raises even larger questions In many ways

dreaming defines our humanity What is humanly special about the states of dreaming And what are we losing when we limit our focus to its technical and biologic structure and extend the capacity for dreaming into our artificial creations Machine Dreaming and Consciousness provides thorough discussion of these issues for neuroscientists and other researchers investigating consciousness and cognition Addresses the function and role of dream like processing in AI systems Describes the functions of dreaming in the creative process of both humans and machines Presents an alternative approach to the philosophy of machine consciousness Provides thorough discussion of machine dreaming and consciousness for neuroscientists and other researchers investigating consciousness and cognition **Sleep and Dreaming** Edward F. Pace-Schott,2003 This book reviews and bridges the gap between the fields of sleep and dreaming as they relate to research It presents five papers by leading scientists and more than seventy five commentaries on those papers by nearly all of the other leading authorities in the field An Introduction to the Psychology of Dreaming Kelly Bulkeley Ph.D.,2017-06-22 Introducing students at all levels to the key concepts of modern dream psychology this concise book provides an overview of major theories regarding the formation function and interpretation of dreams Why do people dream and what do dreams mean What do the most recent neuroscientific research and studies of patterns in dream content reveal about the functionality of dreams How do the ideas of earlier generations of dream psychologists continue to influence the research of psychologists today An Introduction to the Psychology of Dreaming covers all major theories in dream psychology from 1900 to the present day It provides readers with a unique resource that focuses specifically on this lineage of research in dream psychology and is concise and accessibly written Each chapter of the book analyzes a particular theory of dream psychology in terms of three basic questions How are dreams formed What functions do dreams serve How can dreams be interpreted By examining each theorist s answers to these questions readers can clearly see how dream psychology theorists have both incorporated concepts from previous researchers and developed new ideas of their own A breadth of psychological approaches are considered from Freud and Jung to contemporary brain studies giving readers an appreciation of the wide range of theories regarding this fascinating area of study *Dream Science* J. F. Pagel,2014-02-05 Dreaming is the cognitive state uniquely experienced by humans and integral to our creativity the survival characteristic that allows for the rapid change and innovation that defines our species and provides the basis for our art philosophy science and humanity Yet there is little empiric or scientific evidence supporting the generally accepted dream based theories of neuroconsciousness Dream Science examines the cognitive science of dreaming and offers an evidence based view of the phenomenon Today such evidence based breakthroughs in the field of dream science are altering our understanding of consciousness Different forms of dreaming consciousness occur throughout sleep and dreamlike states extend into wake Each dream state is developed on a framework of memories emotions representational images and electrophysiology amenable to studies utilizing emerging and evolving technology Dream Science discusses basic insights into the scientific study of dreaming including the limits to

traditional Freudian based dream theory and the more modern evidence based science It also includes coverage of the processes of memory and parasomnias the sleep disturbance diagnoses related to dreaming This comprehensive book is a scientific exploration of the mind brain interface and a look into the future of dream science Provides a more evidence based approach than any other work on the market Single source of integrated information on all aspects of dream science makes this a critical time saving reference for researchers and clinicians Authored by one of the leaders in the field of dream research *Emotion and the Psychodynamics of the Cerebellum* Fred M. Levin,2018-03-28 This is a book about cognition emotion memory and learning Along the way it examines exactly how implicit memory knowing how and explicit memory knowing that are connected with each other via the cerebellum Since emotion is also related to memory and most likely one of its organising features many fields of human endeavour have attempted to clarify its fundamental nature including its relationship to metaphor problem solving learning and many other variables This is an attempt to pull together the various strands relating to emotions so that clinicians and researchers alike can identify precisely and ultimately agree upon what emotion is and how it contributes to the other known activities of mind and brain **Sleep Disorders Medicine** Sudhansu Chokroverty,2017-05-02 Since publication of the first edition in 1994 the second edition in 1999 and the third edition in 2009 many new advances in sleep medicine have been made and warrant a fourth edition This comprehensive text features 19 additional chapters and covers basic science technical and laboratory aspects and clinical and therapeutic advances in sleep medicine for beginners and seasoned practitioners With the discovery of new entities many new techniques and therapies and evolving basic science understanding of sleep Sleep Disorders Medicine Fourth Edition brings old and new knowledge about sleep medicine together succinctly in one place for a deeper understanding of the topic Neurologists internists family physicians pediatricians psychiatrists psychologists otolaryngologists dentists neurosurgeons neuroscientists intensivists as well as those interested in advancing their knowledge in sleep and its disorders will find this edition to be an invaluable resource to this bourgeoning field Dreams Robert J. Hoss,Katja Valli Ph.D.,Robert P. Gongloff,2019-01-11 This two volume set examines dreams and dreaming from a variety of angles biological psychological and sociocultural in order to provide readers with a holistic introduction to this fascinating subject Whether good or bad and whether we remember them or not each night every one of us dreams But what biological or psychological function do dreams serve What do these vivid images and strange storylines mean How have psychologists religions and society at large interpreted dreams and how can a closer examination of our dreams provide useful insights Dreams Understanding Biology Psychology and Culture presents a holistic view of dreams and the dreaming experience that answers these and many other questions Divided thematically this two volume book examines the complex and often misunderstood subject of dreaming through a variety of lenses This collection is written by a large and diverse team of experts and edited by leading members of the International Association for the Study of Dreams IASD but remains an approachable and accessible introduction to this captivating topic for all

readers

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