

Dynamic Structure of NREM Sleep



Péter Halász
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Springer

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Mario Giovanni Terzano

Dynamic Structure Of Nrem Sleep:

Dynamic Structure of NREM Sleep Peter Halasz, Robert Bodizs, 2012-10-14 Dynamic Structure of NREM Sleep is a concise guide to Cyclic Alternating Pattern CAP phenomenology and slow wave homeostasis. It presents an original approach to a specialized aspect of sleep neuroscience in a concise and easy to read format. The authors are specialists in the field of sleep neuroscience and lend a new perspective to the benefits of slow wave activity during sleep. The main feature of this discussion is that slow wave activity increases as a function of previous wakefulness and it gradually decreases in the course of sleep. Alongside developing this idea this book covers the entire range of sleep issues from basic structure to function in comprehensive detail. Dynamic Structure of NREM Sleep is valuable reading for neurologists, sleep neuroscientists and those with an interest in the field.

Dynamic Structure of Nrem Sleep Springer, 2012-10-16 Phasic Events and Dynamic Organization of Sleep Mario Giovanni Terzano, 1991 Examines the role of EEG phasic events such as K complexes, sequences of reactive slow waves and microarousals in the physiological organization of sleep and discusses their significance in insomnia, sleep apnoeas, epilepsy and other disorders.

Autonomic Nervous System and Sleep Sudhansu Chokroverty, Pietro Cortelli, 2021-02-23 This comprehensive book addresses all elements of the autonomic nervous system (ANS) and sleep interaction as well as ANS alterations in sleep and how these impact primary and comorbid sleep dysfunction. It meets the market need for a comprehensive text that deals with ANS changes in sleep and how these impact various neurological, medical and primary sleep disorders. Organized into three parts, the book begins with a review of the foundational bodily systems that participate in coordination of ANS activity with other homeostatic responses such as respiration, cardiovascular reflexes and responses to stress. Part two then examines methods of laboratory evaluation and the why, when, how of interpreting heart rate variability in sleep. To conclude the final section of the book broadly covers the many clinical aspects of ANS including insomnia, restless leg syndrome, sleep apnea, sleep-related epilepsy and acute autonomic neuropathy.

Autonomic Nervous System and Sleep enhances the reader's understanding of the pathophysiology of various disorders and explains how to apply this profound understanding is important to new lines of therapy to improve morbidity.

Clinical Electroencephalography Oriano Mecarelli, 2019-06-06 This book describes the developments and improvements in electroencephalography (EEG). In recent years digital technology has replaced analog equipments and it is now possible to easily record and store EEG tracings and to quickly recall previously acquired material for subsequent analysis. In addition, not only static figures but also electronic supplementary materials can be included in books enabling EEGs to be viewed in real time. In clinical practice EEG still represents the most important functional examination in the study CNS development and its anatomical and physiological integrity throughout life. In the pathological context EEG provides indispensable diagnostic information for classification of epileptic syndromes and it is also valuable in all the other CNS diseases, infectious, cerebrovascular, neurodegenerative etc. Furthermore, monitoring EEG can be widely used in emergency settings such as

emergency departments or intensive care units In comatose patients EEG provides information regarding prognosis and evaluation of the sedative effect of anesthetic drugs Written by a group of leading national and international experts it offers a substantial yet practical EEG compendium which serves as a reference resource for physicians and neurodiagnostic technologists as well as physicians in training researchers practicing electroencephalographers and students

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Epilepsy and Sleep Dudley S. Dinner, Hans O. Luders, 2001-01-24 It is well recognized that there is an intimate and reciprocal interaction between epilepsy and sleep The book *Epilepsy and Sleep* is a ground breaking comprehensive source for exploring this correlation and is especially timely because of the considerable growth in the understanding of the physiology underlying both sleep and epilepsy An insightful reference it presents many of the complex physiologic mechanisms underlying epilepsy sleep interaction and highlights sleeping disorder symptoms that may be related to epilepsy The annual cost of treating epilepsy in the United States is an estimated 12.5 billion according to a report issued January 2000 by The Epilepsy Foundation The Foundation also reports that more than 180 000 Americans develop epilepsy each year However thousands more cases may be misdiagnosed as sleeping disorders causing these figures to jump significantly This correlation and diagnosis can help determine the correct type of medication to administer to regulate the symptoms in turn saving hundreds of hours of lost time at work and millions of dollars Provides the first comprehensive source of information available on the correlation between epilepsy and sleep Outlines sleeping disorder symptoms which may in fact be caused by epilepsy Well illustrated easy to read text An essential text for epileptologists psychiatrists physicians and sleep disorder therapists Written by internationally recognized experts in the field

Clinical Neurophysiology of Sleep Disorders Christian Guilleminault, 2005-01-01 This volume in the *Handbook of Clinical Neurophysiology* series defines the role of clinical neurophysiology in the study of disorders of sleep It includes the physiology of sleep and the role of clinical neurophysiology in assessing sleep with common and less common methods of testing The epidemiology of sleep disorders and the wide range of neurophysiologic abnormalities associated with them are described including disorders associated with other neurologic diseases The ultimate reference source for clinical

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