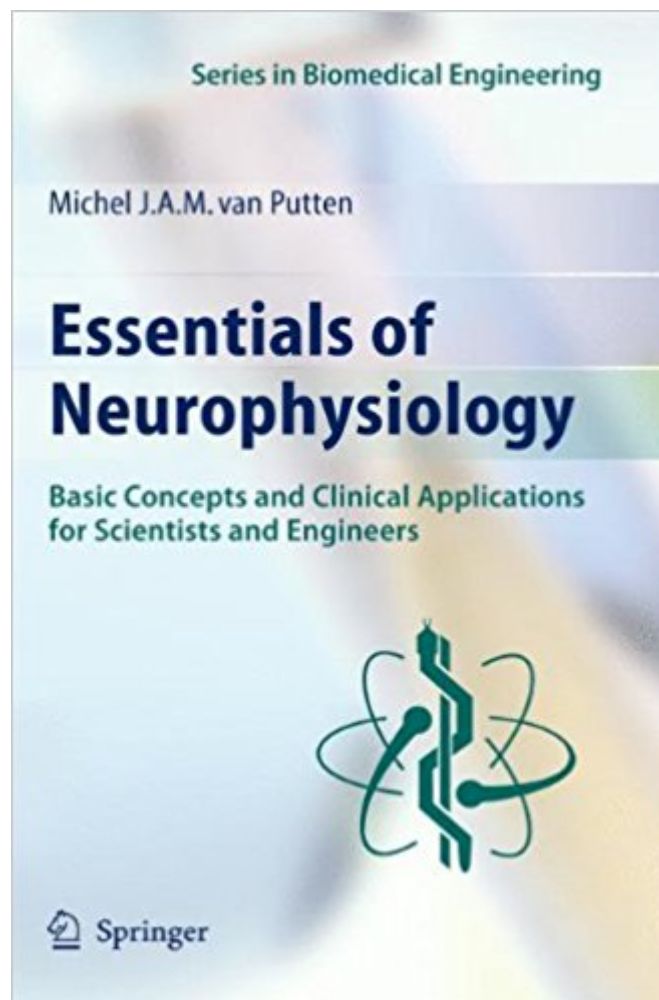


The book was found

Essentials Of Neurophysiology: Basic Concepts And Clinical Applications For Scientists And Engineers (Series In Biomedical Engineering)



Synopsis

In this book, we approach neurophysiology at the interface of neurology and clinical neurophysiology. The medical disciplines of the nervous system, neurology and clinical neurophysiology, rest heavily on other sciences, notably cellular biology, neuro-anatomy, neuro-physiology, applied physics and mathematical biology. Existing medical textbooks on neurophysiology, neurology and clinical neurophysiology are an excellent source of the phenomenology of various principles and diseases. Here, we choose to elucidate some of the underlying physiological, physical processes and experimental methods, intended for a broad audience – medical residents and students, as well as students in the emerging area of medical technical sciences. We feel that a good understanding of fundamentals may significantly enhance insight into various aspects of clinical neurology and clinical neurophysiology. This book, therefore, is focused on a selection of clinical signs and symptoms to highlight basic principles of neurology, (neuro-)physiology and neuroanatomy. While we believe this text to be of interest to medical students or residents in neurology or clinical neurophysiology, we specifically aim at students interested in contributing to new developments and innovations in neurology and clinical neurophysiology. These students are involved with patients, even though they are not trained for routine patient care.

Book Information

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Customer Reviews

These lectures provide the basic understanding of various clinical signs and symptoms from a thorough insight into basic principles of neurology, neurophysiology and neuroanatomy. The primary audience is therefore students whose future work will be in these fields and in particular those – who will become – typical clinical medical specialists driving the technological evolution. Essentials of neurophysiology therefore presents a hybrid of information, both from the clinical field and from basic physiology, with a very strong emphasis on concepts, including mathematical descriptions if felt necessary for a thorough understanding, but with less emphasis on various diseases. However, prototype examples of neurological diseases are discussed. In this respect, more technically and/or research minded medical students, residents, neurologists and clinical neurophysiologists, will also find this text useful. The topics covered range from basic neuroanatomy to physiology, from membrane potentials to interneuronal communication. In addition, the author explains how various measurements on the human nervous system can be performed, including a treatise on medical measurements in general.

This textbook reviews the basics and application of neurophysiology for anyone interested in this interdisciplinary field. The text provides clear explanation of difficult aspects and includes relevant references plus questions to test the reader's understanding of the topic. I strongly recommend it.

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