



Essentials of Neurophysiology: Basic Concepts and Clinical Applications for Scientists and Engineers **(Series in Biomedical Engineering)**

Michel J.A.M. van Putten

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Michel J.A.M. van Putten

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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.

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