

SLOW CORTICAL POTENTIALS REFLECT THE REGULATION OF CORTICAL EXCITABILITY

Thomas Elbert

Institute for Experimental Audiology
University of Münster
Münster
Germany

SUMMARY

A model is described which postulates ways in which regulatory circuits within the brain might generate electrical activity underlying spontaneous EEG fluctuations and event-related slow potentials (ERP) of the brain. We suggest that slow potentials represent a measure of the excitability of cortical neuronal networks and that this excitability must be regulated within distinct limits. The regulation has reflexive characteristics but must contain anticipatory elements as well.

Five main postulates are basic to the model:

- (1) The electrical sources of event-related slow potentials and other large amplitude EEG activity reside in the dendritic trees of cortical pyramidal neurons.
- (2) Surface negative potentials represent a measure for the excitability in the underlying neural tissue, surface positivity signifies widespread absence of facilitation.
- (3) Slow potentials indicate availability and spatial allocation of resources for information processing performed by the underlying neural tissue. Direction of attention and memory search will generate negative potentials in those neural assemblies which process the respective concepts. Memory storage and updating of information require that large proportions of the neural network be shut off and therefore they are accompanied by widespread positive waves of high amplitude. The electrical source of these waves can be traced to neural populations not involved in the storage process.
- (4) Conscious processes arise above a certain amount of cortical excitability; they appear when threshold levels of negative DC shifts are exceeded.

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Slow Brain Potentials and Behavior Brigitte Rockstroh, 1982 *Brain-Computer Interfaces* Bernhard Graimann, Brendan Z. Allison, Gert Pfurtscheller, 2010-10-29 A brain computer interface BCI establishes a direct output channel between the human brain and external devices BCIs infer user intent via direct measures of brain activity and thus enable communication and control without movement This book authored by experts in the field provides an accessible introduction to the neurophysiological and signal processing background required for BCI presents state of the art non invasive and invasive approaches gives an overview of current hardware and software solutions and reviews the most interesting as well as new emerging BCI applications The book is intended not only for students and young researchers but also for newcomers and other readers from diverse backgrounds keen to learn about this vital scientific endeavour

Health Psychophysiology S. Suter, 2014-06-03 Most military researchers who have attempted to measure organizational commitment have done so on an ad hoc basis preferring to invent new items and scales rather than incorporate well established measures The purpose of this special issue is to reverse this trend by bringing military organizational commitment research into the scientific mainstream and to do so in ways that will prove useful to military services while advancing organizational commitment theory and knowledge This special issue grew out of a symposium conducted at the 1998 American Psychological Association Convention that arose when many in the field recognized the practical importance of measuring organizational commitment while maintaining a healthy concern for ensuring that this measurement was well grounded in organizational commitment theory Taken together the articles in this issue demonstrate the concepts of affective and continuance commitment and their underlying measures by using them in different military samples and under a variety of operational conditions *Niedermeyer's Electroencephalography* Donald L. Schomer, Fernando H. Lopes da Silva, 2018 Niedermeyer's Electroencephalography Basic Principles Clinical Applications and Related Fields Seventh Edition keeps the clinical neurophysiologist on the forefront of medical advancements This authoritative text covers basic neurophysiology neuroanatomy and neuroimaging to provide a better understanding of clinical neurophysiological findings This edition further delves into current state of the art recording EEG activity both in the normal clinical environment and unique situations such as the intensive care unit operating rooms and epilepsy monitoring suites As computer technology evolves so does the integration of analytical methods that significantly affect the reader's interpretations of waveforms and trends that are occurring on long term monitoring sessions Compiled and edited by Donald L. Schomer and Fernando H. Lopes da Silva along with a global team of experts they collectively bring insight to crucial sections including basic principles of EEG and MEG normal EEG EEG in a clinical setting clinical EEG in seizures and epilepsy complementary and special techniques event related EEG phenomena and shed light on the future of EEG and clinical neurophysiology Akin to an encyclopedia of everything EEG this comprehensive work is perfect for neurophysiology

fellows as well as neurology neurosurgery and general medical residents and for the interns and medical students and is a one stop shop for anyone training in EEG or preparing for neurophysiology or epilepsy board exams

International Perspectives on Self-Regulation and Health John G. Carlson, A. Ronald Seifert, 2013-11-21 An attractive feature of self regulation therapies is that instead of doing something to the patients they teach them to do something for themselves Furthermore the fact that the patient is able to do something to cope with his or her health problem can produce a significant reduction in the stress that may have contributed to that problem and in the additional stress that it produces While the idea that the mind can play a role in the health of the body and some therapeutic techniques based on this idea are not new remarkable scientific advances have been made recently in the area of self regulation and health There has been an exciting and rapidly accelerating increase in our basic science knowledge of homeostasis or in other words how the body regulates itself in order to maintain health Technical and conceptual advances are increasing our knowledge of the details of such regulation at all levels cells tissues organs organ systems and the body as a whole We are learning how the competing demands of different elements at each of these levels are adjusted by the brain which with its neural and humoral mechanisms is the supreme organ of integration of the body

EEG and Evoked Potentials in Psychiatry and Behavioral Neurology John R. Hughes, William P. Wilson, 2013-10-22 EEG and Evoked Potentials in Psychiatry and Behavioral Neurology discusses the two techniques of examining brain function electroencephalography EEG and evoked potentials The book also addresses conditions that fall under the umbrella term behavioral sciences and are associated with psychiatry and neurology The book begins by discussing current definitions of organic brain syndrome in order to delineate more clearly the processes whose EEG correlates are to be described It then outlines the various EEG correlates of impaired central nervous system CNS dysfunction for a variety of specific organic etiologies Separate chapters cover EEG studies of schizophrenia affective disorders alcoholism mental retardation childhood psychiatric disorders and changes in CNS function caused by psychotropic drugs The various aspects of EEG pertinent to electroconvulsive therapy are also discussed including the role of a baseline EEG beneficial and adverse changes neurophysiologic mechanisms and the nature of the seizures themselves This book is intended for the neurologist dealing actively with psychiatric or mental disorders the electroencephalographer who is generally concerned with behavioral neurology or especially interested in various controversial EEG patterns and the psychiatrist interested in organicity in general or EEG in particular

Indexes to the Epilepsy Accessions of the Epilepsy Information System J. Kiffin Penry, 1978 *Current Catalog* National Library of Medicine (U.S.), 1982 First multi year cumulation covers six years 1965-70

Event-Related Brain Potentials in Man Enoch Callaway, 2012-12-02 Event Related Brain Potentials in Man contains the proceedings of a conference held on April 26-29 1977 and sponsored by the National Institute of Mental Health in Rockville Maryland to assess the field of event related brain potential ERP research The papers explore findings on ERPs in man in relation to the link between brain and behavior brain functions mental states

and drug interactions Organized into eight chapters this volume begins with an overview of the functional neuroanatomy and neurophysiology of ERPs along with their measurement It then proceeds with a discussion of some applications of ERPs to patients with neurological and sensory impairment the use of ERPs to analyze sensation as well as perception and attention the endogenous components of the ERP the ERP correlates of psychopathology and the event related brain potentials across the life span The reader is also introduced to ethical issues regarding ERPs with reference to the history of encephalography An epilogue assessing the increased status and maturity of the ERP field along with uncharted territories and future prospects concludes the book This book will be of interest to scientists and clinical investigators working in biological sciences neuropsychology psychiatry and neurology

The Bereitschaftspotential Marjan Jahanshahi, Mark Hallett, 2012-12-06 Kornhuber and Deecke first recorded and reported the Bereitschaftspotential in 1964 The aim of this book is to bring together in a single volume some of the important research on the Bereitschaftspotential and other movement related cortical potentials and to highlight and address some of the pertinent questions relating to the Bereitschaftspotential and to identify the key issues for future investigation in this field This book represents a unique compilation of information about the Bereitschaftspotential and related cortical potentials and techniques for measuring preparatory processes in the brain The book will be of interest to motor physiologists psychologists and neurologists working in clinical or research laboratories

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