

## Principles of Brain Functioning



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### **Reviews**

*This book is really gripping and fascinating. Of course, it is actually play, nonetheless an interesting and amazing literature. You will not feel monotony at anytime of the time (that's what catalogs are for about if you request me).*  
**(Delbert Gleason)**

## PRINCIPLES OF BRAIN FUNCTIONING



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Condition: New. Publisher/Verlag: Springer, Berlin | A Synergetic Approach to Brain Activity, Behavior and Cognition | It is increasingly being recognized that the experimental and theoretical study of the complex system brain requires the cooperation of many disciplines, including biology, medicine, physics, chemistry, mathematics, computer science, linguistics, and others. In this way brain research has become a truly interdisciplinary endeavor. Indeed, the most important progress is quite often made when different disciplines cooperate. Thus it becomes necessary for scientists to look across the fence surrounding their disciplines. The present book is written precisely in this spirit. It addresses graduate students, professors and scientists in a variety of fields, such as biology, medicine and physics. Beyond its mathematical representation the book gives ample space to verbal and pictorial descriptions of the main and, as I believe, fundamental new insights, so that it will be of interest to a general readership, too. I use this opportunity to thank my former students, some of whom are my present co-workers, for their cooperation over many years. Among them I wish to mention in particular M. Bestehorn, L. Borland, H. Bunz, A. Daffertshofer, T. Ditzinger, E. Fischer, A. Fuchs, R. Haas, R. Honlinger, V. Jirsa, M. Neufeld, M. Ossig, D. Reimann, M. Schanz, G. Schoner, P. Tass, C. Uhl. My particular thanks go to R. Friedrich and A. Wunderlin for their constant help in many respects. Stimulating discussions with a number of colleagues from a variety of fields are also highly appreciated. | Prologue.- I Foundations.- 1. Introduction.- 1.1 Biological Systems are Complex Systems.- 1.2 Goals of Synergetics.- 1.3 The Brain as a Complex System.- 1.4 Traditional Versus Synergetic Interpretations of Brain Functions.- 2. Exploring the Brain.- 2.1 The Black Box Approach.- 2.2 Opening the Black Box.- 2.3 Structure and Function...



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