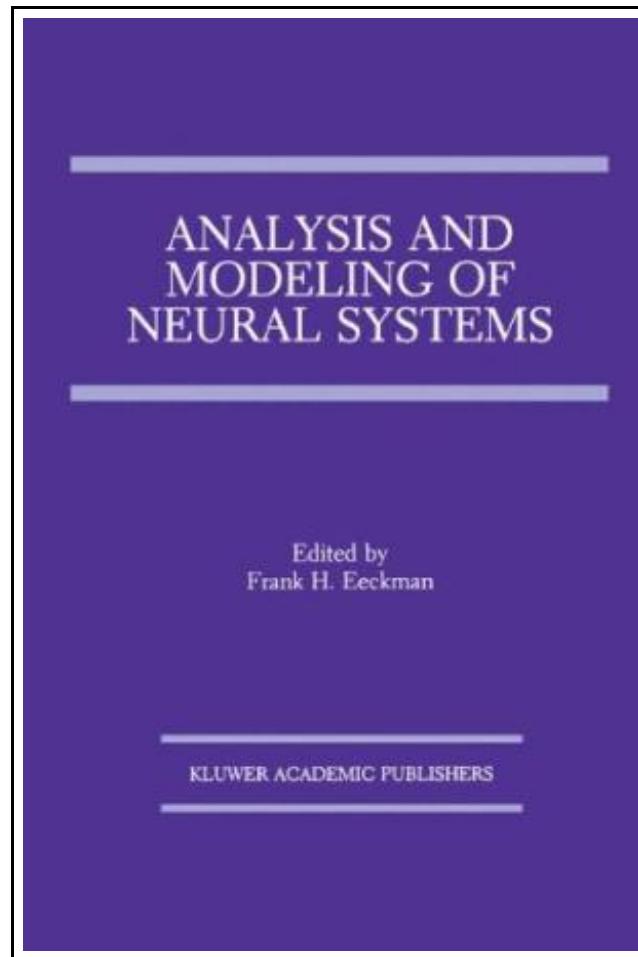


## Analysis and Modeling of Neural Systems



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Springer. Hardcover. Book Condition: New. Hardcover. 414 pages. Dimensions: 9.3in. x 6.0in. x 1.3in. The recent explosion of activity in neural modeling seems to have been driven more by advances in the theories and applications of learning paradigms for artificial neural networks than by advances in our knowledge of real nervous systems. In the past few years, major conferences on neural networks and neural modeling have emerged and, appropriately, have focused on technological exploitation of these advances. Sensing that the recent leaps in both computational power and knowledge of the nervous system may have set the stage for a revolution in theoretical neurobiology, neuroscientists have welcomed the new neural modeling; but many of them would like to see it directed as heavily toward understanding of the nervous system as it is presently directed toward computer technology and control-system engineering. Furthermore, some neuroscientists believe that technologists should not be satisfied only with exploiting or extending the recent advances in learning paradigms, that emerging knowledge about real nervous systems will suggest other, comparably valuable, paradigms for signal processing and control. Our motive as organizers was to have a conference that focused on both of these areas -- emerging modeling tools and concepts for neurobiologists, and emerging neurobiological concepts and neurobiological knowledge of potential use to technologists. Our principle of design was simple. We attempted to organize a conference with a group of speakers that would be most illuminating and exciting to us and to our students. We succeeded. Edwin R. Lewis INTRODUCTION This volume contains the collected papers of the 1990 Conference on Analysis and Modeling of Neural Systems, held July 25-27, in Berkeley, California. There were 21 invited talks at the meeting, covering aspects of analysis and modeling from the subcellular level to the network level. In addition, thirty six posters were accepted for presentation. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Hardcover.

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