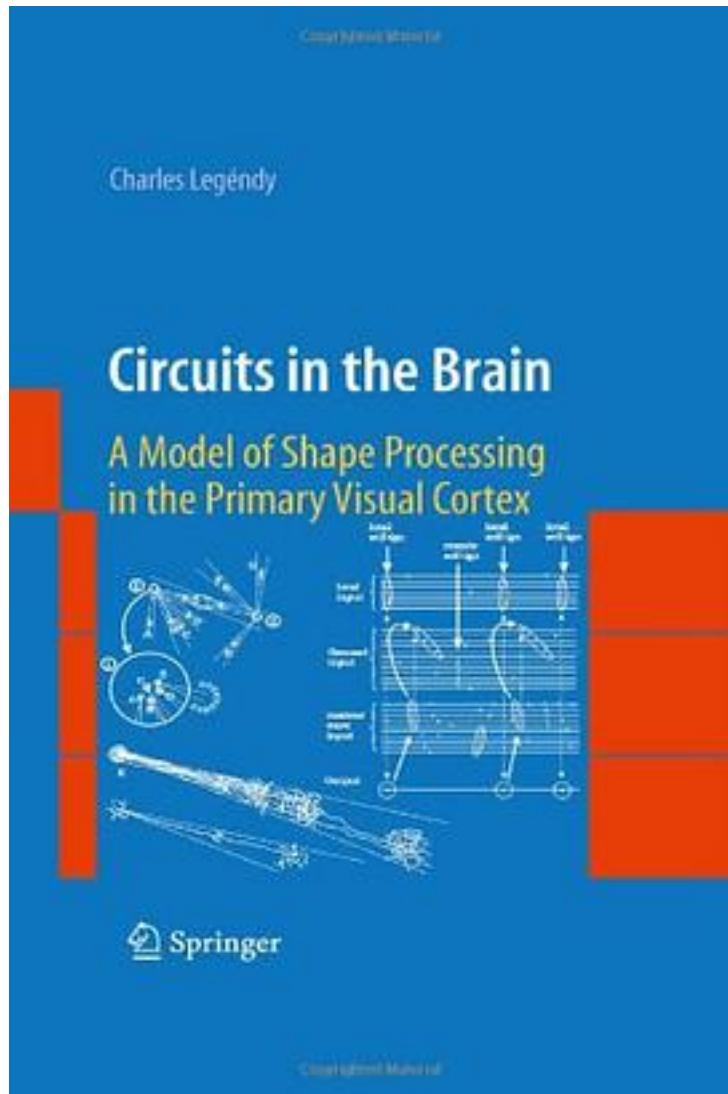


Circuits in the Brain



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Dr. Charles Legendy's Circuits in the Brain: A Model of Shape Processing in the Primary Visual Cortex is published at a time marked by unprecedented advances in experimental brain research which are, however, not matched by similar advances in theoretical insight. For this reason, the timing is ideal for the appearance of Dr. Legendy's book, which undertakes to derive certain global features of the brain directly from the neurons. Circuits in the Brain, with its "relational firing" model of shape processing, includes a step-by-step development of a set of multi-neuronal networks for transmitting visual relations, using a strategy believed to be equally applicable to many aspects of brain function other than vision. The book contains a number of testable predictions at the neuronal level, some believed to be accessible to the techniques which have recently become available. With its novel approach and concrete references to anatomy and physiology, the monograph promises to open up entirely new avenues of brain research, and will be particularly useful to graduate students, academics, and researchers studying neuroscience and neurobiology. In addition, since Dr. Legendy's book succeeds in achieving a clean logical presentation without mathematics, and uses a bare minimum of technical terminology, it may also be enjoyed by non-scientists intrigued by the intellectual challenge of the elegant devices applied inside our brain. The book is uniquely self-contained; with more than 120 annotated illustrations it goes into full detail in describing all functional and theoretical concepts on which it builds.

作者介绍:

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