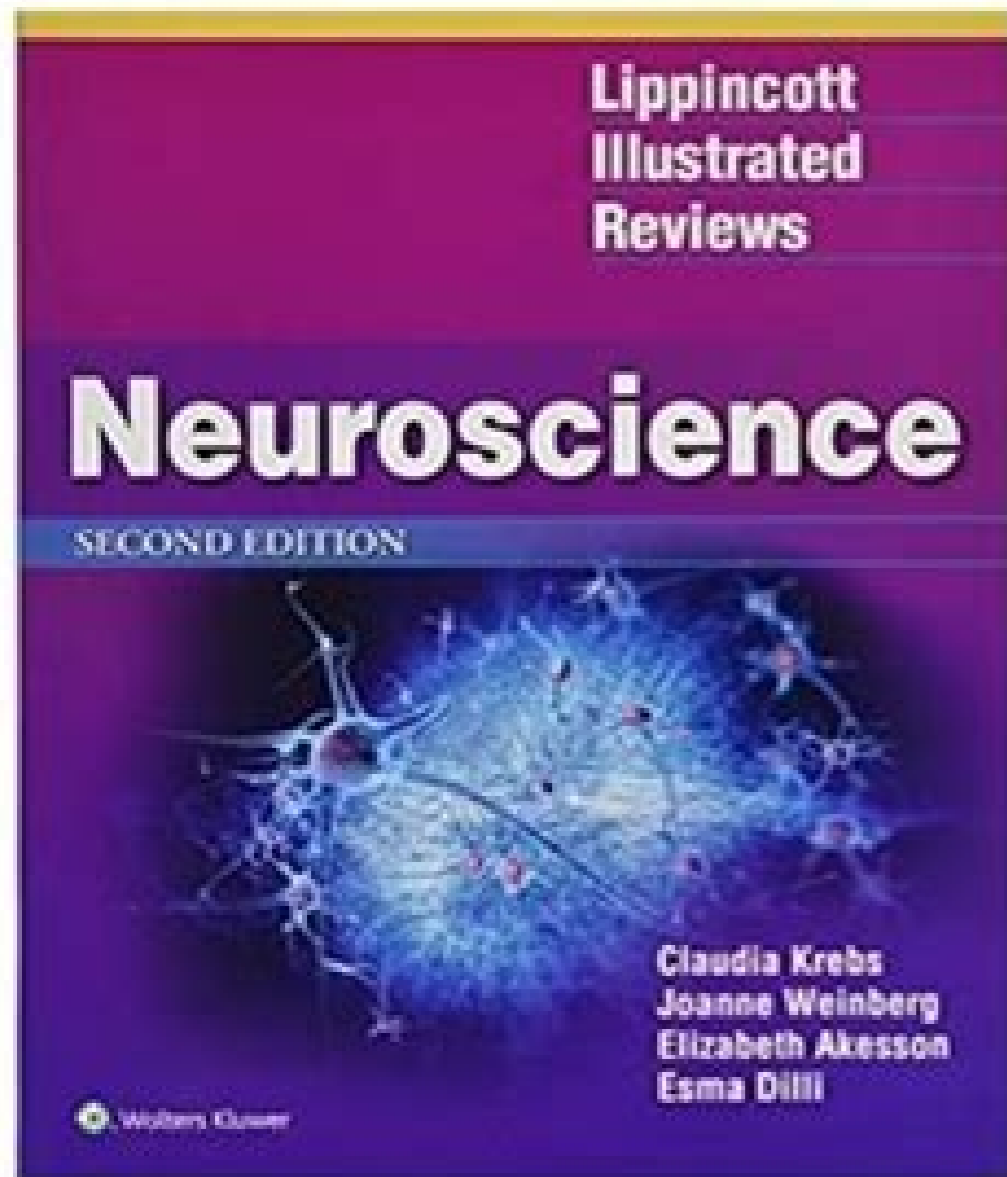
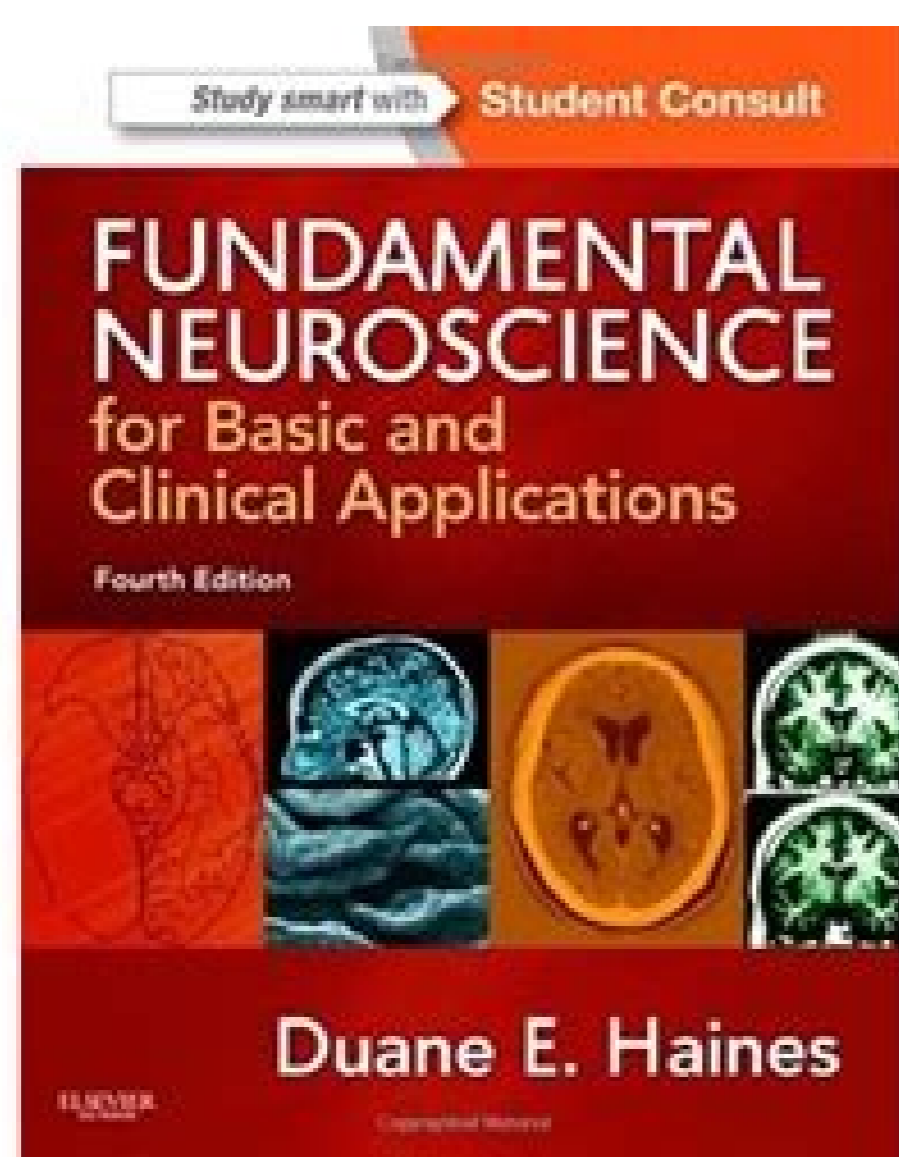


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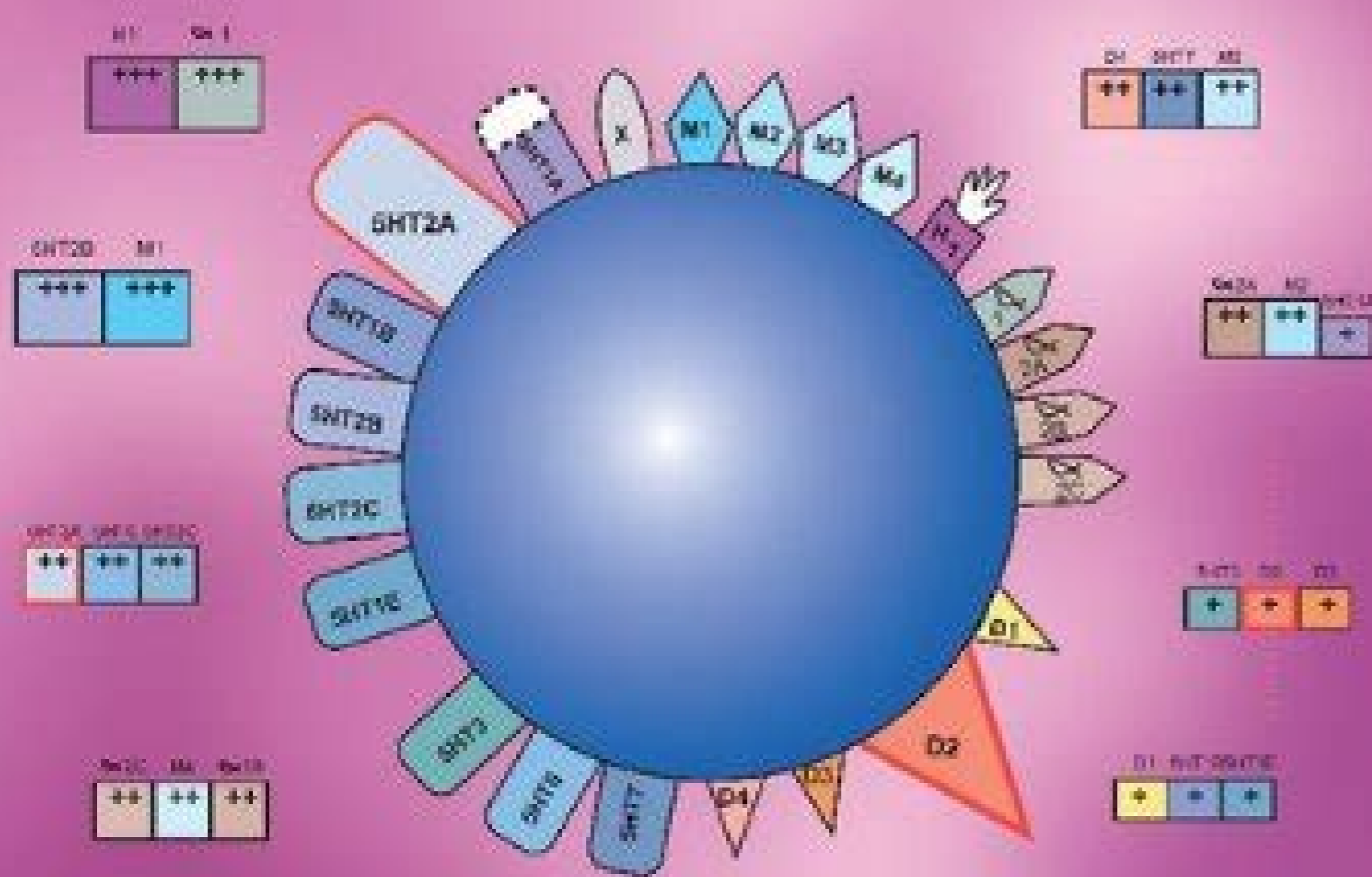
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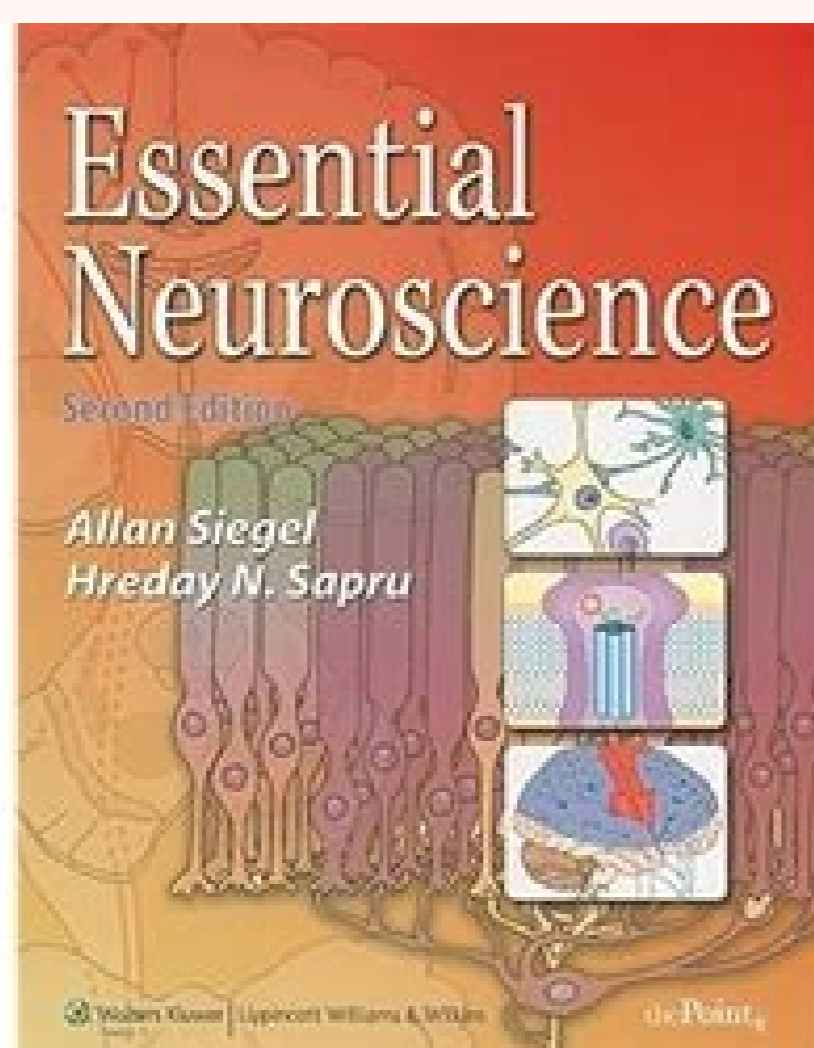
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Several cognitive or perceptual tasks require a coordinated flow of information within functionally specialized brain areas networks. It has been argued that neuronal oscillations provide a dynamic coordination mechanism underlying the brain (Singer, 1999; Varela et al., 2001; Fries, 2005, 2015; Siegel et al., 2012). These oscillations can reflect synchronized rhythmic oscillations of the oscillations of local neuronal groups (Buzsáki and Wang, 2012), and can facilitate the flow of neural information between the nodes of the network when the oscillations are synchronized between those nodes (Womelsdorf et al., 2007). The neural information transmitted from one region to another is reflected by the potential of action, where the potential of action itself can be arranged in time. These expressions can occur during oscillations and can further improve the reliability of information transmission (Lisman, 1997) or contribute to the creation of long-range synchronization (Wang, 2010). The brain could dynamically coordinate the flow of information by changing the force, model, or frequency with which the different brain areas fit into oscillatory synchronicity. The hypothesis that neuronal oscillations in general and interareal synchronization of these oscillations in particular, are instrumental for normal brain function has been the widespread application of oscillatory methods to evaluate neural synchronicity in electrophysiological data. This data can be obtained with invasive or non-invasive recording techniques, and in context involving experimental manipulation or in a context without task. Regardless of the technique and the context of recording, once the data is collected, the experimenter researcher is faced with the challenge of quantifying the data. However, we hope that they act as a useful guide to common interpretation of results. We feel that this is challenging for many, as there is no single, clear-cut way to interpret results. We have provided several examples of how to interpret results, and we believe that these examples will be helpful to many researchers in the field.

Our approach to the data is based on the idea that the data is not just a collection of numbers, but a collection of information. The information is contained in the patterns of the data, and it is our job to extract that information. We use a variety of techniques to do this, including time-frequency analysis, coherence analysis, and spectral analysis. We use these techniques to extract the information from the data, and we use the information to make inferences about the underlying system. We believe that this approach is a more powerful way to analyze data than traditional methods, and we hope that it will be helpful to many researchers in the field.

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