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the Branching Driver Axons; 6.5 Outstanding Questions; Chapter 7. Linking the Body and the World to the Thalamus; 7.1 Introduction; 7.2 The Inputs to Thalamus; 7.3 Outstanding Questions; Chapter 8. The Inputs to the Cortex from the Thalamus and the Cortical Descending Outputs; 8.1 Early Studies of Thalamocortical Relationships; 8.2 More Recent Views of the Thalamocortical Pathways
8.3 The Topography of Thalamocortical Projections 8.4 Different Types of Thalamocortical Projection; 8.5 Cortical Outputs; 8.6 Outstanding Questions; Chapter 9. Thalamocortical Links to the Rest of the Brain and the World; 9.1 A Brief Overview; 9.2 First Order and Higher Order Relays; 9.3 Identifying the Drivers and Modulators; 9.4 Reading the Message; 9.5 The Thalamic Gate; 9.6 The Motor Branches; 9.7 Cortical Areas Act through Their Connections with Lower Motor Centers; 9.8 The Functional Capacities of Cortical Areas; 9.9 Comparing Two Models of Thalamocortical Functional Relationships
9.10 Examples of How the Functions of Particular Pathways Can Be Analyzed in Terms of the Organizational Principles Summarized So Far
9.11 Relating Thalamocortical Connectivity Patterns to Action, Perception, and Cognition; References; Index

Sommario/riassunto

This study shows new ways of thinking about how the brain relates to the world, to cognition, and to behaviour. Based on foundations previously established it considers the implications of these ground rules for thalamic inputs, thalamocortical connections, and cortical outputs. The book argues that functional and structural analyses of pathways connecting thalamus and cortex point beyond these to lower centres and through them to the body and the world.
