Contents

Preface and Acknowledgments		ί
1	Introduction	1
2	Building Representations with Neurons and Spikes	11
3	Peeling Off Our Conscious Lives	47
4	What Neural Network Models Can and Cannot Explain about Cognition	83
5	Networks and the Problem of Panpsychism	109
6	Structure and Function of Brain Systems for Conscious and Nonconscious Representation	131
7	Same Brain, Different States: Waking, Sleeping, and Anesthesia	173
8	Requirements for Conscious Representations	209
9	Neural Mechanisms for Conscious Representations	233
10	Levels of Representational Organization	265
11	Philosophical and Future Perspectives	285
Notes References Index		317 323 371