

# Contents

<i>Preface</i>	ix
1. The Bounds of Reality <i>On Parallel Worlds</i>	3
2. Endless Doppelgängers <i>The Quilted Multiverse</i>	10
3. Eternity and Infinity <i>The Inflationary Multiverse</i>	37
4. Unifying Nature's Laws <i>On the Road to String Theory</i>	72
5. Hovering Universes in Nearby Dimensions <i>The Brane and Cyclic Multiverses</i>	104
6. New Thinking About an Old Constant <i>The Landscape Multiverse</i>	128
7. Science and the Multiverse <i>On Inference, Explanation, and Prediction</i>	164
8. The Many Worlds of Quantum Measurement <i>The Quantum Multiverse</i>	189
9. Black Holes and Holograms <i>The Holographic Multiverse</i>	238

10. Universes, Computers, and Mathematical Reality <i>The Simulated and Ultimate Multiverses</i>	274
11. The Limits of Inquiry <i>Multiverses and the Future</i>	307
Notes	323
Suggestions for Further Reading	353
Index	355