

## CONTENTS

<i>Preface</i>	<i>ix</i>
1 BEYOND REDUCTIONISM	1
2 REDUCTIONISM	10
3 THE PHYSICISTS REBEL	19
4 THE NONREDUCIBILITY OF BIOLOGY TO PHYSICS	31
5 THE ORIGIN OF LIFE	44
6 AGENCY, VALUE, AND MEANING	72
7 THE CYCLE OF WORK	88
8 ORDER FOR FREE	101
9 THE NONERGODIC UNIVERSE	120
10 BREAKING THE GALILEAN SPELL	129

11 THE EVOLUTION OF THE ECONOMY	150
12 MIND	177
13 THE QUANTUM BRAIN?	197
14 LIVING INTO MYSTERY	230
15 THE TWO CULTURES	246
16 BROKEN BONES	255
17 ETHICS EVOLVING	259
18 A GLOBAL ETHIC	273
19 GOD AND REINVENTING THE SACRED	281
<i>Acknowledgments</i>	289
<i>Notes</i>	291
<i>Bibliography</i>	305
<i>Index</i>	307