

CONTENTS

| | |
|--|-----------|
| <i>List of illustrations</i> | xi |
| <i>Notes on contributors</i> | xii |
| <i>Preface</i> | xv |
| Introduction | 1 |
| NEIL A. MANSON | |
| <i>Classifying the design argument</i> | 1 |
| <i>The resurgence of the design argument in the late twentieth century</i> | 2 |
| <i>The logic of the design argument</i> | 5 |
| <i>Specifying for what the Universe is designed</i> | 11 |
| <i>What should we expect from a supernatural designer?</i> | 14 |
| <i>The much-maligned multiverse</i> | 17 |
| PART I | |
| General considerations | 25 |
| 1 The design argument | 27 |
| ELLIOTT SOBER | |
| <i>What is the design argument?</i> | 28 |
| <i>Clarifications</i> | 29 |
| <i>Other formulations of the design argument, and their defects</i> | 33 |
| <i>Three objections to the likelihood argument</i> | 36 |
| <i>The relationship of the organismic design argument to Darwinism</i> | 42 |
| <i>Anthropic reasoning and cosmic design arguments</i> | 43 |
| <i>A prediction</i> | 49 |

| | | |
|----------|--|------------|
| 2 | The meaning of design | 55 |
| | JOHN LESLIE | |
| | <i>The miraculous and the natural</i> 57 | |
| | <i>The place of evil in a designed universe</i> 61 | |
| | <i>Explaining God: the Platonic approach</i> 63 | |
| 3 | The design inference: old wine in new wineskins | 66 |
| | ROBERT O'CONNOR | |
| | <i>Introduction</i> 66 | |
| | <i>The distinctive strengths of LDA</i> 68 | |
| | <i>Empirical evidence for design</i> 69 | |
| | <i>The philosophic assumptions of intelligent design</i> 77 | |
| | <i>Conclusion</i> 82 | |
| 4 | God by design? | 88 |
| | JAN NARVESON | |
| | <i>"Natural" theology and the design argument</i> 88 | |
| | <i>The cosmological argument</i> 88 | |
| | <i>Arguments from design: telling creation from non-creation</i> 90 | |
| | <i>Clarifying "design"</i> 92 | |
| | <i>The argument from design: mechanisms</i> 93 | |
| | <i>Design and cosmic purpose</i> 94 | |
| | <i>Three examples</i> 97 | |
| | <i>The goodness of God and the badness of theological explanations</i> 100 | |
| | <i>A note on religion as a social phenomenon</i> 103 | |
| 5 | The argument to God from fine-tuning reassessed | 105 |
| | RICHARD SWINBURNE | |
| | <i>Why a world with human bodies is likely if God exists</i> 107 | |
| | <i>Why a world with human bodies is unlikely if there is no God</i> 115 | |
| 6 | Perceiving design | 124 |
| | DEL RATZSCH | |
| | <i>Background: Reid</i> 125 | |
| | <i>Reid and design</i> 127 | |
| | <i>Assessment</i> 131 | |
| | <i>Implications</i> 136 | |
| | <i>Some prospects</i> 137 | |

| | | |
|--|-----|------------|
| PART II | | |
| Physical cosmology | | 145 |
| 7 The appearance of design in physics and cosmology | | 147 |
| PAUL DAVIES | | |
| 8 Design and the anthropic fine-tuning of the Universe | | 155 |
| WILLIAM LANE CRAIG | | |
| <i>Introduction</i> | 155 | |
| <i>Examples of wider teleology</i> | 155 | |
| <i>The inference to design</i> | 161 | |
| <i>The design argument examined</i> | 165 | |
| <i>Conclusion</i> | 175 | |
| 9 Evidence for fine-tuning | | 178 |
| ROBIN COLLINS | | |
| <i>Introduction</i> | 178 | |
| <i>Definition of and criteria for fine-tuning</i> | 179 | |
| <i>Six solid cases of fine-tuning</i> | 180 | |
| <i>Conclusion</i> | 190 | |
| <i>Appendix: seriously problematic claims in the literature</i> | 191 | |
| 10 Probabilities and the fine-tuning argument: a skeptical view | | 200 |
| TIMOTHY MCGREW, LYDIA MCGREW, AND ERIC VESTRUP | | |
| <i>The structure of the argument</i> | 201 | |
| <i>The normalizability problem</i> | 203 | |
| <i>Rescues and replies</i> | 204 | |
| PART III | | |
| Multiple universes | | 209 |
| 11 Other universes: a scientific perspective | | 211 |
| MARTIN REES | | |
| <i>Many “universes”?</i> | 211 | |
| <i>A special recipe?</i> | 212 | |
| <i>Three interpretations of the apparent “tuning”</i> | 212 | |
| <i>Are questions about other universes part of science?</i> | 214 | |

Scenarios for a multiverse 216
Universal laws, or mere bylaws? 218
Testing multiverse theories here and now 218

12 Too many universes 221

D.H. MELLOR

Universes and the multiverse 221
Existence, location, and ultimate explanations 222
Explanations and probabilities 223
A prerequisite of chances 225
An improbable argument 225
Facing the firing squad 226

13 Fine-tuning and multiple universes 229

ROGER WHITE

Introduction 229
Probabilistic confirmation 230
Our universe versus some universe 233
Carter's hypothesis 234
The observational selection effect 235
Improbable and surprising events 238
Leslie's shooting analogy 240
Conclusion 243
Postscript 243

14 The chance of the gaps 251

WILLIAM DEMBSKI

Probabilistic resources 251
Universal probability bounds 253
The inflationary fallacy 255
Four widely discussed inflatons 257
Explanatory power and independent evidence 260
Arthur Rubinstein – consummate pianist or lucky poseur? 263
Independent evidence for a designer 265
Closing off quantum loopholes 267

| | |
|--|------------|
| PART IV | |
| Biology | 275 |
| 15 The modern intelligent design hypothesis: breaking rules | 277 |
| MICHAEL BEHE | |
| <i>Differences from Paley</i> | 277 |
| <i>Darwinism and design</i> | 279 |
| <i>An “evolved” operon</i> | 282 |
| <i>Blood clotting</i> | 286 |
| <i>Falsifiability</i> | 288 |
| 16 Answering the biochemical argument from design | 292 |
| KENNETH R. MILLER | |
| <i>An exceptional claim</i> | 293 |
| <i>Mr Darwin’s workshop</i> | 295 |
| <i>Getting to the heart of the matter</i> | 298 |
| <i>Whips and syringes</i> | 299 |
| <i>Disproving design</i> | 300 |
| <i>Caught in the mousetrap</i> | 303 |
| <i>Breaking the chain</i> | 304 |
| <i>Paley’s ghost</i> | 305 |
| 17 Modern biologists and the argument from design | 308 |
| MICHAEL RUSE | |
| <i>Intelligent design</i> | 309 |
| <i>The explanatory filter</i> | 311 |
| <i>Intelligent design criticized</i> | 315 |
| <i>Explanatory filters</i> | 318 |
| <i>The blind watchmaker</i> | 319 |
| <i>Pain</i> | 321 |
| <i>Redundancy?</i> | 325 |
| <i>Conclusion</i> | 326 |

| | | |
|-----------|--|------------|
| 18 | The paradoxes of evolution: inevitable humans in a lonely universe? | 329 |
| | SIMON CONWAY MORRIS | |
| | <i>What is best?</i> 330 | |
| | <i>Hallmarks of creation?</i> 332 | |
| | <i>What is inevitable?</i> 334 | |
| | <i>Focusing on convergence</i> 336 | |
| | <i>Converging brains?</i> 338 | |
| | <i>Rare Earth?</i> 340 | |
| | <i>Inevitably lonely?</i> 343 | |
| 19 | The compatibility of Darwinism and design | 348 |
| | PETER VAN INWAGEN | |
| | <i>Index</i> | 364 |