

CONTENTS

Acknowledgments	vii
Foreword	ix
Foreword to the 2016 edition	xiii
1 Our Picture of the Universe	1
2 Space and Time	17
3 The Expanding Universe	41
4 The Uncertainty Principle	61
5 Elementary Particles and the Forces of Nature	71
6 Black Holes	91
7 Black Holes Ain't So Black	113
8 The Origin and Fate of the Universe	130
9 The Arrow of Time	162
10 Wormholes and Time Travel	174
11 The Unification of Physics	187
12 Conclusion	205
Albert Einstein	211
Galileo Galilei	215
Isaac Newton	219
Appendix	223
Glossary	235
Index	245