## Contents

Acknowledgments	vi
Introduction by Carl Sagan	ix
1 Our Picture of the Universe	1
2 Space and Time	15
3 The Expanding Universe	37
4 The Uncertainty Principle	57
5 Elementary Particles and the Forces of Nature	67
6 Black Holes	85
7 Black Holes Ain't So Black	105
8 The Origin and Fate of the Universe	121
9 The Arrow of Time	151
10 The Unification of Physics	163

181

187

189

191

193

201

11 Conclusion

Albert Einstein

Galileo Galilei

Isaac Newton

Glossary

Index