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MICHIHO KAKU

BESTSELLING AUTHOR OF *PHYSICS OF THE IMPOSSIBLE*

VISIONS

HOW SCIENCE WILL REVOLUTIONIZE
THE 21ST CENTURY

Michio Kaku

Visions

Michio Kaku is the Henry Semat Professor of Theoretical Physics at the City College of New York. Cofounder of string field theory, he is the author of the critically acclaimed and bestselling *Hyperspace*, as well as *Beyond Einstein* (with Jennifer Thompson), *Quantum Field Theory: A Modern Introduction*, and *Introduction to Superstrings*. He hosts an hour-long weekly radio science program that is nationally syndicated.

Other Books by Michio Kaku

HYPERSPACE

BEYOND EINSTEIN

MICHIO KAKU

Visions



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Will Revolutionize
the 21st Century

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This book is dedicated to my parents

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Preface

THIS IS A BOOK about the limitless future of science and technology, focusing on the next 100 years and beyond.

A book with the proper scope, depth, and accuracy necessary to summarize the exciting and fast-paced progress of science could not be written without the insights and wisdom of the scientists who are making the future possible.

Of course, no one person can invent the future. There is simply too much accumulated knowledge, there are too many possibilities and too many specializations. In fact, most predictions of the future have floundered because they have reflected the eccentric, often narrow viewpoints of a single individual.

The same is not true of *Visions*. In the course of writing numerous books, articles, and science commentaries, I have had the rare privilege of interviewing over 150 scientists from various disciplines during a ten-year period.

On the basis of these interviews, I have tried to be careful to delineate the time frame over which certain predictions will or will not be realized. Scientists expect some predictions to come about by the year 2020; others will not materialize until much later—from 2050 to the year 2100. As a result, not all predictions are created equal—some are more forward-looking and necessarily more speculative than others. The time frames I've identified in the book, of course, are to be taken only as guidelines, to give readers a sense of when certain trends and technologies can be expected to emerge.

The outline for the book is as follows: In [Part I](#) of *Visions*, I discuss the remarkable developments that await us in the computer revolution, which are already beginning to transform business, communications, and our lifestyles, and which I believe will one day give us the power to place intelligence in every part of our planet.