

CONTENTS

	Foreword	vii
	Introduction	xiii
Chapter 1	The Start of Quantum Theory	1
Chapter 2	Atoms	13
Chapter 3	Waves and Particles in Quantum Physics	27
Chapter 4	The Quantum Oscillator	47
Chapter 5	The Hydrogen Atom	57
Chapter 6	The Spin — A New Quantum Number	67
Chapter 7	Forces and Particles in Quantum Physics	75
Chapter 8	The Periodic Table	87
Chapter 9	Quantum Theory and the Relativity of Space and Time	97

v >>>

Chapter 10	Electrons and Photons	107
Chapter 11	Colored Quarks and Gluons	119
Chapter 12	Massive Neutrinos	135
Chapter 13	The Masses of Particles	143
Chapter 14	The Fundamental Constants of Nature	149
Chapter 15	The End	161
	Short Biographies of the Physicists	163
	Index	175