

CONTENTS

INTRODUCTION 7

1	THE PRIME MOVER OF THE UNIVERSE	8
	Picture Essay: Energy in Nature: Beautiful and Boundless 16	
2	GETTING WARM ON THE TRAIL OF HEAT	28
	Picture Essay: Men and Milestones of Measurement 38	
3	THE TORRID PACE OF MOVING MOLECULES	50
	Picture Essay: Heat, the Inevitable Tax on Usefulness 60	
4	THE SEARCH FOR THE ENDS OF THE RAINBOW	70
	Picture Essay: The Strange and Spectral World of Light 78	
5	RICH DIVIDENDS FROM CHEMICAL BONDS	92
	Picture Essay: The Vital, Versatile Bounty of Oil 102	
6	ELECTRICITY: WILLING GENIE IN A WIRE	116
	Picture Essay: The Miracle of Tamed Lightning 124	
7	THE FANTASTIC WORLD OF DR. EINSTEIN	136
	Picture Essay: From a Mite of Matter, Mighty Force 146	
8	$E = mc^2$: SUBSTANCE PUT TO WORK	166
	Picture Essay: For the Future: Potent New Sources of Power 176	

Energy Reserves: Stockpiles of Power for the Future 193

A History of the Development of Atomic Energy 194

Further Reading and Acknowledgments 196

Index 197

Picture Credits 200