

STRANGE BEAUTY

*Murray Gell-Mann and the Revolution
in Twentieth-Century Physics*

by GEORGE JOHNSON



VINTAGE BOOKS
A DIVISION OF RANDOM HOUSE, INC.
NEW YORK

CONTENTS

<i>Prologue:</i>	ON THE TRAIL TO LA VEGA	3
<i>Chapter 1:</i>	A HYPHENATED AMERICAN <i>Czernowitz, Vienna, and New York City</i>	18
<i>Chapter 2:</i>	THE WALKING ENCYCLOPEDIA <i>New York City and New Haven</i>	38
<i>Chapter 3:</i>	A FEELING FOR THE MECHANISM <i>Cambridge</i>	56
<i>Chapter 4:</i>	VILLAGE OF THE DEMIGODS <i>Princeton</i>	76
<i>Chapter 5:</i>	THE MAGIC MEMORY <i>Chicago</i>	86
<i>Chapter 6:</i>	"NO EXCELLENT BEAUTY" <i>Chicago, Princeton, Paris, Urbana, Glasgow, Copenhagen, and Pisa</i>	107
<i>Chapter 7:</i>	A LOPSIDED UNIVERSE <i>Pasadena and Moscow</i>	134
<i>Chapter 8:</i>	FIELD OF DREAMS <i>Pasadena and Kiev</i>	160
<i>Chapter 9:</i>	THE MAGIC EIGHTBALL <i>Paris, Entebbe, the Serengeti, Pasadena, and San Diego</i>	175

<i>Chapter 10:</i>	HOLY TRINITY <i>Geneva, Cambridge, New York, and Pasadena</i>	198
<i>Chapter 11:</i>	ACES AND QUARKS <i>Pasadena, Udaipur, Kyoto, Dubna, Kathmandu, and Sapporo</i>	219
<i>Chapter 12:</i>	THE SWEDISH PRIZE <i>Pasadena, Princeton, and Stockholm</i>	241
<i>Chapter 13:</i>	QUANTUM CHROMODYNAMICS <i>Aspen, Pasadena, Geneva, and Paris</i>	267
<i>Chapter 14:</i>	SUPERPHYSICS <i>Pasadena, Aspen, and Tesuque</i>	291
<i>Chapter 15:</i>	FROM THE SIMPLE TO THE COMPLEX <i>Sant Feliu de Guíxols, Pasadena, Lima, and Santa Fe</i>	310
<i>Chapter 16:</i>	THE QUARK AND THE JAGUAR <i>Santa Fe, New York City</i>	329
<i>Epilogue:</i>	VALENTINE'S DAY, 1997	347
	<i>Glossary</i>	355
	<i>Sources and Acknowledgments</i>	361
	<i>Notes</i>	365
	<i>Bibliography</i>	405
	<i>Index</i>	411
<i>16 pages of illustrations will be found following page 148</i>		