Contents

Forewo		ix
Introdu	action to Dunnington's Gauss: Titan of Science	
	by Jeremy Gray	xix
Guy W	aldo Dunnington by Fritz-Egbert Dohse	xxvii
I	Introduction: Family Background	3
II	The Enchanted Boyhood	11
III	Student Days	23
IV	The Young Man	32
V	Astronomy and Matrimony	49
VI	Further Activity	67
VII	Back to Göttingen	85
VIII	Labor and Sorrow	90
IX	The Young Professor: A Decade of Discovery,	
	1812–1822	100
X	Geodesy and Bereavement: The Transitional Decade,	
	1822–1832	113
XI	Alliance With Weber: Strenuous Years	139
XII	The Electromagnetic Telegraph	147
XIII	Magnetism: Physics Dominant	153
XIV	Surface Theory, Crystallography, and Optics	163
XV	Germination: Non-Euclidean Geometry	174
XVI	Trials and Triumphs: Experiencing Conflict	191
XVII	Milestones on the Highways and Byways	208
XVIII	Senex Mirabilis	225
XIX	Monarch of Mathematics in Europe	250
XX	The DOYEN of German Science, 1832-1855	265
XXI	Gathering Up the Threads: A Broad Horizon	280
XXII	RELIGIO SCIENTIAE: A Profession of Belief From the	
	Philosopher and Lover of Truth	298

XX	XIV Epilogue	
	1. Apotheosis: Orations of Ewald and Sartorius	331
	2. Valhalla: Posthumous Recognition and Honors	335
	Appendixes	
A	Estimates of His Services	343
В	Honors, Diplomas, and Appointments of Gauss	351
C	The Will of Gauss	356
D	Children of Gauss	361
E	Genealogy	376
F	Chronology of the Life of Carl F. Gauss	391
G	Books Borrowed by Gauss From the University of	
	Göttingen Library During His Student Years	398
H	Courses Taught by Gauss	405
I	Doctrines, Opinions, Theories, and Views	411
	Bibliography	
	1. Publications of Gauss	420
	Collected Works	430
	2. About Gauss	
	Manuscripts and Related Material	431
	Books	431
	Pamphlets	434
	Articles	435
	An Introduction to Gauss's Mathematical Diary	
	by Jeremy Gray	449
	Gauss's Mathematical Diary	469
	Commentary on Gauss's Mathematical Diary	
	by Jeremy Gray	485
	Annotated Bibliography	497
	Index	507

318

XXIII Sunset and Eventide: Renunciation

List of Illustrations

Frontispiece:

Carl Friedrich Gauss: full-length portrait by R. Wimmer in the Deutsches Museum in Munich (1925)

Following page 130:

The birthplace of C. F. Gauss

The Gauss coat-of-arms

Silhouette of Gauss in his youth

Bust of Gauss by Friedrich Künkler (1810)

The Collegium Carolinum in Brunswick

The Schwarz portrait of Gauss (1803)

Minna Waldeck, second wife of Gauss

Portrait of Gauss by S. Bendixen (1828)

A sketch of Gauss by his pupil J. B. Listing

The observatory of the University of Göttingen

The courtyard of the Göttingen observatory as it appeared in Gauss' time

Gauss' personal laboratory in the observatory as he left it

The Gauss-Weber telegraph (Easter, 1833)

Gauss' principal instrument, the Repsold meridian circle

Gauss and Weber

Biermiller's copy (1887) of the Jensen portrait of Gauss (1840)

Ritmüller's portrait of Gauss on the terrace of the observatory

Gauss in 1854

Gauss about 1850

Portrait of Wolfgang Bolyai by János Szabó

Johann Friedrich Pfaff

Following page 322:

Heinrich Christian Schumacher

Heinrich Wilhelm Matthias Olbers

Friedrich Wilhelm Bessel

Alexander von Humboldt

Johann Franz Encke

Johann Benedikt Listing