

CONTENTS

Acknowledgments xi

PART ONE WRITING MATTERS

Chapter 1 The Problem of Writing Knowledge 3

Chapter 2 What Written Knowledge Does: Three Examples of Academic Discourse 18

PART TWO THE EMERGENCE OF LITERARY AND SOCIAL FORMS IN EARLY MODERN SCIENCE

Chapter 3 Reporting the Experiment: The Changing Account of Scientific Doings in the *Philosophical Transactions of the Royal Society*, 1665–1800 59

Chapter 4 Between Books and Articles: Newton Faces Controversy 80

Chapter 5 Literate Acts and the Emergent Social Structure of Science 128

PART THREE TYPIFIED ACTIVITIES IN TWENTIETH-CENTURY PHYSICS

Chapter 6 Theoretical Integration in Experimental Reports in Twentieth-Century Physics: Spectroscopic Articles in *Physical Review*, 1893–1980 153

Chapter 7 Making Reference: Empirical Contexts, Choices, and Constraints in the Literary Creation of the Compton Effect 187

Chapter 8 Physicists Reading Physics: Schema-Laden Purposes and Purpose-Laden Schema 235

PART FOUR	THE REINTERPRETATION OF FORMS IN THE SOCIAL SCIENCES
Chapter 9	Codifying the Social Scientific Style: The APA <i>Publication Manual</i> as a Behaviorist Rhetoric 257
Chapter 10	Strains and Strategies in Writing a Science of Politics: The Unsettled Rhetoric of the <i>American Political Science Review</i> , 1979 278
PART FIVE	SCIENTIFIC WRITING AS A SOCIAL PRACTICE
Chapter 11	How Language Realizes the Work of Science: Science as a Naturally Situated, Social Semiotic System 291
Chapter 12	Writing Well, Scientifically and Rhetorically: Practical Consequences for Writers of Science and Their Teachers 318
	References 333
	Index 347