Contents

	Preface	1.
	Part One: Courses	
1.	A Professional Scenario for the Technical Writing Classroom Lawrence J. Johnson	3
2.	The Case Method: Bridging the Gap between Engineering Student and Professional Ben F. Barton and Marthalee S. Barton	22
3.	Communication Strategy in Professional Writing: Teaching a Rhetorical Case Linda S. Flower	34
4.	Simulation and In-Class Writing: A Student-Centered Approach Colleen Aycock	47
5.	Group Projects in the Technical Writing Course Gerard J. Gross	54
6.	The Functional Writing Model in Technical Writing Courses Anita Brostoff	65
7.	A New Approach to Teaching a Course in Writing for Publication David L. Carson	74
	Part Two: Components	
8.	From Aristotle to Einstein: Scientific Literature and the Teaching of Technical Writing Stephen Gresham	87

vi Contents

9.	Scientific American in the Technical Writing Course Wayne A. Losano	94
10.	Cut and Paste: Preparing for On-the-Job Writing Gordon E. Coggshall	100
11.	Using Technical Information Resources Maurita Peterson Holland and Leslie Ann Olsen	115
12.	Technical Illustration Charles E. Beck and William J. Wallisch, Jr.	122
13.	Engineering Students Write Books for Children Herman A. Estrin	132
14.	Teaching the Writing of Instructions Donald H. Cunningham and John H. Mitchell	136
15.	Oral Briefing versus Technical Report: Two Approaches to Communication Problems William E. McCarron	144
	Part Three: Exercises	
16.	Technical Writing Class: Day One Dean G. Hall	159
17.	Organizing Is Not Enough! Paul V. Anderson	163
18.	"Build It Again, Sam": An Instructional Simulation Game Peter R. Klaver	185
19.	Writing for John Q. Public: The Challenge in Environmental Writing Gretchen H. Schoff	194

205

20. Decision-Making and Problem-Solving: An Holistic Writing Assignment

Susan B. Dunkle and David M. Pahnos

Contents		vii
21.	Teaching the Use of English Articles to Nonnative Speakers in Technical Writing Classes Thomas N. Huckin	210
	Supplementary Reading	224
	Contributors	227