

Writing Science: Literacy and Discursive Power

M.A.K. Halliday and J.R. Martin



The Falmer Press

(A member of the Taylor & Francis Group)

London • Washington, D.C.

Contents

List of Tables and Figures	vii–ix
Series Editor’s Introduction	x
Introduction: The Discursive Technology of Science	1
Chapter 1 General Orientation	2
Chapter 2 The Model	22
Part 1: Professional Literacy: Construing Nature	51
Introduction	52
Chapter 3 On the Language of Physical Science	54
Chapter 4 Some Grammatical Problems in Scientific English	69
Chapter 5 The Construction of Knowledge and Value in the Grammar of Scientific Discourse: Charles Darwin’s <i>The Origin of the Species</i>	86
Chapter 6 Language and the Order of Nature	106
Chapter 7 The Analysis of Scientific Texts in English and Chinese	124
Part 2: School Literacy: Construing Knowledge	133
Introduction	134
Chapter 8 The Discourse of Geography: Ordering and Explaining the Experiential World	136
Chapter 9 Literacy in Science: Learning to Handle Text as Technology	166
Chapter 10 Technicality and Abstraction: Language for the Creation of Specialized Texts	203

Contents

Chapter 11	Life as a Noun: Arresting the Universe in Science and Humanities	221
References		268
Index		281