

# Contents



## **PREFACE ix**

<b>Chapter 1</b>	<b>Science and Philosophy 1</b>
	Scientific Disputes and Philosophical Questions 1
	Modern Science: A Brief History 3
	Images of Science 8
	Suggestions for Further Reading 10
<b>Chapter 2</b>	<b>The Analytic Project 12</b>
	Demarcating Science 12
	Confirmation 24
	Theories 34
	Explanation 38
	Failures—and Successes 46
	Suggestions for Further Reading 47
<b>Chapter 3</b>	<b>The View from the Sciences 50</b>
	The Sciences on Their Own Terms 50
	The Ideal of Unified Science 51
	The Ineradicability of Causation 61
	Against the Supernatural 66
	Making Sense of Ourselves 70
	Naturalizing Knowledge 74
	Suggestions for Further Reading 76

<b>Chapter 4</b>	<b>Science, History, and Society</b>	<b>78</b>
	More than Anecdote	78
	Frameworks and Revolutions	79
	The Bogey of Relativism	89
	Success, Truth, and Progress	94
	Progress Without Truth?	101
	Suggestions for Further Reading	103
<b>Chapter 5</b>	<b>Critical Voices</b>	<b>106</b>
	A Mixture of Challenges	106
	Diversity and the Feminist Critique	107
	The Cultural Critique	113
	The Ecological Critique	117
	Antiscience	122
	Science as a Social Endeavor	125
	Knowledge and Power	132
	Suggestions for Further Reading	134
<b>Chapter 6</b>	<b>Science, Values, and Politics</b>	<b>136</b>
	The Aims of the Sciences	136
	Values and Choices	139
	The Autonomy of the Sciences	141
	Powers Behind the Lab	142
	What Do “We” Want to Know?	150
	Deciding What We Know	156
	Conclusion	162
	Suggestions for Further Reading	162
	<b>INDEX</b>	<b>165</b>