

Explaining Understanding

New Perspectives from Epistemology
and Philosophy of Science

**Edited by Stephen R. Grimm,
Christoph Baumberger and
Sabine Ammon**

Contents

<i>List of Contributors</i>	vii
<i>Acknowledgments</i>	ix
<i>Guide to the Essays</i>	xi
1 What is Understanding? An Overview of Recent Debates in Epistemology and Philosophy of Science	1
CHRISTOPH BAUMBERGER, CLAUS BEISBART, AND GEORG BRUN	
PART I	
Understanding and the Facts	35
2 How Idealizations Provide Understanding	37
MICHAEL STREVENS	
3 How False Theories Can Yield Genuine Understanding	50
HENK W. DE REGT AND VICTOR GIJSBERS	
4 Exemplification in Understanding	76
CATHERINE Z. ELGIN	
5 Explaining Understanding, Understanding Knowledge	92
SABINE AMMON	
6 Enlightening Falsehoods: A Modal View of Scientific Understanding	111
SOAZIG LE BIHAN	
PART II	
Understanding and its Norms	137
7 Must Understanding be Coherent?	139
KAREEM KHALIFA	
8 Dimensions of Objectual Understanding	165
CHRISTOPH BAUMBERGER AND GEORG BRUN	

9	An Evidentialist Account of Explanatory Understanding MARK NEWMAN	190
10	Understanding and Transparency STEPHEN R. GRIMM	212
11	Satisfying Understanding JOHN GRECO	230
PART III		
	Understanding and the Epistemic Agent	249
12	Towards a Knowledge-Based Account of Understanding CHRISTOPH KELP	251
13	Cognitive Bias, Scepticism and Understanding J. ADAM CARTER AND DUNCAN PRITCHARD	272
14	Social Epistemology and the Acquisition of Understanding EMMA C. GORDON	293
15	Understanding Without Believing DANIEL A. WILKENFELD	318
	<i>Index</i>	335