

Contents

Preface ix

Introduction 1

- 1 Scientific Method and the Problem of Demarcation 9
- 2 Misconceptions about How Science Works 29
- 3 The Importance of the Scientific Attitude 47
- 4 The Scientific Attitude Need Not Solve the Problem of Demarcation 65
- 5 Practical Ways in Which Scientists Embrace the Scientific Attitude 81
- 6 How the Scientific Attitude Transformed Modern Medicine 115
- 7 Science Gone Wrong: Fraud and Other Failures 133
- 8 Science Gone Sideways: Denialists, Pseudoscientists, and Other Charlatans 149
- 9 The Case for the Social Sciences 185
- 10 Valuing Science 201

Notes 207

Bibliography 251

Index 267