Foreword xiii

Preface xvi

Acknowledgements xvii

List of Illustrations xviii

Abbreviations xix

- 1 Introduction 1
  - 1 John Wallis's "Mottled Soul": The Interpretative Challenge 1
  - 2 The Salve of the "Town Doctor": the Interpretive Approach 6

PART 1

John Wallis's Academic Formation

Introduction to Part 1 13

- 2 John Wallis's Autobiography: Text and Context 15
  - 1 John Wallis and Thomas Smith 15
  - 2 John Wallis's Manuscript Copies of His Autobiography 19
  - 3 John Wallis, Anthony Wood, and the Memory of the Town Doctor 21
- 3 Early Life and Education 27
  - 1 At Home and at School, 1616-32 27
  - 2 Cambridge University, 1632-40 29
    - 2.1 Wallis's Tutors at Cambridge 30
    - 2.2 Philosophical Studies 33
      - 2.2.1 Scholastic Philosophy and the conceptus inadaequati 33
      - 2.2.2 Natural Philosophy and Mathematics 38
    - 2.3 Theological Studies 43
- 4 The Foundation of a Career 49
  - 1 Ecclesiastical Service, 1640-49 49
    - 1.1 Chaplaincies 49
      - 1.1.1 Henry Darley, 1640-4149
      - 1.1.2 Lady Mary Vere, 1641-43 51
    - 1.2 The Westminster Assembly, 1643-43 56
  - 2 Natural Philosophy in London, 1645-49 63
    - 2.1 Natural Philosophers, Philosophies, and Their Instruments of Learning 642.2 Francis Glisson and Philosophical Anatomy 73
  - 3 Conclusion 79

Conclusion to Part 1 81

PART 2 John Wallis's Academic Career

Introduction to Part 2 87

- 5 Mathematical Lecturer 89
  - 1 The Savilian Statutes 90
  - 2 Lectures on Arithmetic and Algebra 94
  - 3 Lectures on Geometry 101
  - 4 Conclusion 112

- 6 Doctor of Divinity 114
  - 1 Dogmatics and the Distinctions of Reason 115
    - 1.1 The Decrees of God 115
      - 1.2 The Trinity 124
    - 1.3 Ecclesiology: the Metaphysics of Presbyterianism 130
  - 2 Reason and Revelation 135
  - 3 Conclusion: the Hermeneutic of Suspension 138
- 7 Pedagogue, Pastor, and Protector 141
  - 1 Geometry as Solidior Philosophia 141
  - 2 The Care of Scholars 146
    - 2.1 Academic Traditions and the Current State of Affairs 146
    - 2.2 Academic Life and the Current Affairs of State 148
  - 3 A University in Its Own Right 151
    - 3.1 A University Counter-Reformation 151
    - 3.2 A Learned Press 158
  - 4 Conclusion 161

Conclusion to Part 2 163

PART 3

John Wallis's Philosophical Method Introduction to Part 3 167

- 8 Mathematical Method 169
  - 1 Geometry, Algebra, and Arithmetic 170
  - 2 Arithmetica Infinitorum, 1656 175
    - 2.1 The Genesis of the Text 177
    - 2.2 The Method of Induction 188
  - 3 Hobbes and Wallis 191
    - 3.1 The Nature of Mathematical Demonstration 192
      - 3.1.1 Modes of Argument: John Wallis 192
      - 3.1.2 Modes of Argument: Thomas Hobbes 193
      - 3.1.3 The Argument between Hobbes and Wallis 196
    - 3.2 The Rhetoric of Demonstration 200
  - 4 Imaginary Numbers 208
  - 5 The Angle of Contact 213
  - 6 Conclusion 222
- 9 The Languages of Philosophy 224
  - 1 Logic 224
    - 1.1 Wallis's Tradition of Logic 226
    - 1.2 The Nature and Definition of Logic 228
    - 1.3 Terms and Definitions 230
    - 1.4 Arguments 234
      - 1.4.1 Syllogism 234
      - 1.4.2 Demonstration 236
      - 1.4.3 Induction 237
    - 1.5 Method 238
  - 2 Language 240
    - 2.1 English Grammar 241
    - 2.2 Universal Grammar 244
  - 3 Conclusion 250

Conclusion to Part 3 252

10 Conclusion 253

Bibliography 257

Index 304