

Contents

Part I Conceptual Structures (1)

Astrology and Natural Philosophy/Science: Reconstructing a Thirteenth Century Astrologizing Aristotelianism

1	<i>Ligamentum naturalis philosophiae et metaphysicae:</i>	
	Astrology and Aristotelian Natural Philosophy	5
1.1	Introduction: <i>Speculum astronomiae</i>	5
1.2	Thomas Aquinas, <i>De operationibus occultis naturae</i>	10
1.3	Aristotle, <i>De Generatione et Corruptione</i>	15
1.4	The Sun in Aristotle's <i>De generatione et corruptione</i>	16
1.5	Deeper Patterns in Aristotle's Natural Philosophy: The Four Types of <i>Motus</i> /"kinesis" and the Ten Categories.....	20
1.6	Albertus Magnus's Translation-Commentary on <i>De generatione et corruptione</i>	23
	1.6.1 Stage 1: The Sun's Role in Generation and Corruption ...	24
	1.6.2 Stage 2: The Period of Life	26
	1.6.3 Stage 3: Expansion of the Efficient Cause	30
	1.6.4 Stage 4: The Period of Life and the Natal Horoscope	34
1.7	<i>De Caelo et Mundo</i>	36
2	Mathematizing the Picture: Mathematics, <i>Perspectiva</i> and Astrology in Roger Bacon and Albertus Magnus	41
2.1	The "Unnamed Master" Revisited	42
2.2	Roger Bacon on Mathematics, <i>Perspectiva</i> and the Unnamed Master	43
2.3	Roger Bacon on Mathematics	50
2.4	Bacon's Natural Philosophy <i>De rebus</i>	56
	2.4.1 <i>De natura loci</i>	56
	2.4.2 <i>Geographia</i>	61
	2.4.3 Roger Bacon's Geometrical-Optical Model of Action.....	65
	2.4.4 <i>Astrologia</i>	70

2.5	Al-Kindi, <i>De radiis stellarum</i>	72
2.6	Roger Bacon's <i>Astrologia</i> Section	75
2.7	Albertus Magnus on the Science of Places	80
2.8	Conclusion.....	91
3	The Natural Philosophical Foundations for Astrological Revolutions: Albertus Magnus's Commentary on the Pseudo-Aristotelian <i>De Causis Proprietatum Elementorum</i>	93
3.1	Water	94
3.2	Air	104
3.3	Fire	107
3.4	Earth	113
3.5	Conclusion to Part 1 (Chapters 1–3)	115
4	Defending Astrology: Roger Bacon and the <i>Speculum Astronomiae</i>	117
4.1	Introduction	117
4.2	Roger Bacon's <i>Iudiciaria-Operativa</i> Distinction.....	119
4.3	Roger Bacon's Defense of Astrology	120
4.4	Framing the Problem in Terms of True vs. False Mathematics	121
4.5	Astrology's Epistemological Limitations.....	130
4.6	Astrology's Utility in Human Affairs.....	133
	4.6.1 Individuals.....	133
	4.6.2 From the Individual to the Political.....	139
4.7	The <i>Speculum astronomiae</i> 's Defense of Astrology	147
4.8	Revolutions (or General Astrology)	148
	4.8.1 Revolutions (1): The Weather.....	149
4.9	Nativities	155
4.10	Interrogations	158
4.11	Elections.....	164
4.12	Conclusion.....	167
Part II Conceptual Structures (2): Astrology and Theology/Religion		
5	Astrology and Theology in Albertus Magnus and Thomas Aquinas: Fate, Divination and Providence	173
5.1	Introduction	173
5.2	Astrology and Theology (1): Fate	173
	5.2.1 Albertus Magnus, <i>De fato</i>	173
	5.2.2 The Metaphysics of Fate (the Formal Dimension).....	174
	5.2.3 The Epistemological Dimension	180
5.3	Astrology and Theology (2): Divination.....	183
	5.3.1 Thomas Aquinas, <i>Summa Theologiae</i> , II.II.92-95	183
	5.3.2 Thomas Aquinas, <i>De iudiciis astrorum</i>	196

5.4	Astrology’s Theological Foundations: The Celestial Bodies in Thomas Aquinas’s Analysis of Divine Providence	199
5.4.1	[1] <i>Summa contra gentiles</i> III.82-94	199
5.4.2	[2] <i>De veritate</i>	221
5.5	Divine Providence and Fate in Albertus Magnus and Thomas Aquinas	225
5.5.1	Albertus Magnus, <i>Physica</i> II.2.19.....	225
5.5.2	Thomas Aquinas, <i>Summa theologiae</i> , I.116.....	230
5.6	Conclusion.....	233
6	Astrology and Theology/Religion in Roger Bacon	235
6.1	Introduction	235
6.1.1	Astrology’s Utility for Religion	235
6.2	First Case Study: History of Religion	237
6.2.1	Stage 1: The Astrological Structure of Religion	237
6.2.2	Stage 2: Planetary Conjunctions	241
6.2.3	Stage 3: Dignities for Interpreting Albumasar	245
6.2.4	Stage 4: The Lunar Religion	252
6.3	Second Case Study in Two Major Stages.....	254
6.3.1	Historical Astrology (1): Great Conjunctions	254
6.3.2	Historical Astrology (2): Ten Saturn Cycles	261
6.4	Conclusion of <i>Judicia astronomiae</i>	264
6.5	Conclusion of Chap. 6 and Part 2.....	269
 Part III Conceptual Structures (3): Astrology and Magic		
7	<i>Imagines astronomicae</i> (talismans) in the <i>Speculum astronomiae</i>, Albertus Magnus and Thomas Aquinas.....	275
7.1	The <i>Speculum astronomiae</i> and the Problem of Magical Images.....	275
7.2	Magic in Albertus Magnus’s Authentic Writings.....	282
7.3	<i>De mineralibus</i>	284
7.4	Did Albertus Magnus Write the <i>Speculum Astronomiae</i> ?.....	291
7.5	Thomas Aquinas on Images-Talismans.....	293
7.6	[1] <i>Summa theologiae</i> II.II.96.2	295
7.7	[2] <i>De operationibus occultis naturae</i>	300
7.8	[3] <i>Summa contra gentiles</i> III.105.....	304
7.9	Thomas’s Loophole.....	311
7.10	Conclusion.....	312
8	<i>Opera et verba sapientiae</i>: Astrology and Magic in Roger Bacon	317
8.1	Introduction	317
8.2	<i>Astronomia Operativa</i>	318
8.3	<i>Opera</i> : Talismans	323

8.4	Moses	324
8.5	Solomon	325
8.6	“Aristotle” (1).....	326
8.7	“Aristotle” (2).....	327
8.8	“Ptolemy”.....	329
8.9	On the Power of Words (1): <i>De virtute verborum</i>	331
8.10	Two Objections	339
8.11	On the Power of Words (2): <i>Fascinatio</i>	343
8.12	Conclusion: Motivating the Pope to Action	347
8.13	Conclusion of Parts I–III.....	356

**Part IV Institutional, Socio-political and Cultural Structures:
Universities, Cities and Courts (1300–1500)**

9	Disciplinary Configurations: Astrology and the Mathematical Disciplines	367
9.1	Introduction	367
9.2	Regiomontanus and the Mathematical Disciplines	367
9.3	Regiomontanus in Praise of Mathematics.....	369
9.4	Ancient Ptolemaic Roots.....	374
9.5	Thirteenth Century Patterns: <i>Speculum astronomiae</i>	376
9.6	Pietro d’Abano: Astrology and Medicine	378
9.7	Conclusion.....	383
10	Institutional Foundations: The Universities	385
10.1	Introduction	386
10.2	The 1405 Statutes: Curricular Patterns at the University of Bologna (Rubric 78)	388
10.3	The University Astrologer: Job Description (Rubric 60).....	391
10.4	Structure of Annual Prognostications (<i>Judicium anni</i>).....	395
10.5	Publication of Annual Prognostications at Bologna.....	397
10.6	Girolamo Manfredi (1425–92).....	399
10.7	Astrologers at Italian Universities.....	401
10.8	University of Bologna	401
10.9	Giovanni Garzoni (1419–1505)	403
10.10	Domenico Maria da Novara (1454–1504)	405
10.11	University of Padua	407
10.12	Pietro d’Abano	409
10.13	Valdizocco’s Astrological Manuscript.....	412
10.14	University of Ferrara	415
10.15	Conclusions	417
	Appendix: David Juste’s Description of Valdizocco’s Astrological Manuscript.....	418

11 Astrology in Society, Politics and Culture..... 423

- 11.1 Annual Prognostications and Astrological History:
Great Conjunctions..... 424
- 11.2 Astrology, Humanism and Chivalry in Courtly Culture..... 428
- 11.3 Astrology in Visual and Literary Culture..... 431
- 11.4 Knowledge and Power: Astrology, Politics
and Culture in Late-Quattrocento Northern Italian Courts 434
- 11.5 Astrology and the Papacy..... 435
- 11.6 Astrology in Milan 439
- 11.7 Astrology in Ferrara 452
- 11.8 Astrology in Florence..... 455

Overall Conclusion to Volume I..... 465

Bibliography 477

Index..... 507