

Contents

Preface — VII

Acknowledgements — XII

List of Key Figures — XIV

List of Tables — XVIII

List of Figures — XIX

Introduction

- 1 Avicenna's *Addendum* in Context — 3**
 - 1.1 The Content of the *Addendum* — 3
 - 1.2 The Composition of the *Addendum* — 5
 - 1.3 *Kitāb al-Lawāḥiq* and the *Addendum* — 11
 - 1.4 Avicenna's Recension of the *Almagest* — 13
 - 1.5 Avicenna's *Addendum* and Jūzjānī's *Khilāṣ kayfiyyat tarkīb al-aflāk* — 20

From Ptolemy to Avicenna

- 2 The Dynamics of Heavenly Motion — 27**
 - 2.1 Aristotle's Unmoved Mover — 28
 - 2.2 The Heavenly Soul, According to Ptolemy — 31
 - 2.3 Muḥammad ibn Mūsā ibn Shākir — 36
 - 2.4 Avicenna — 39
- 3 Ibn Sinān's Hypothesis for the Variable Obliquity of the Ecliptic — 51**
- 4 Variable Obliquity or Variable Solar Latitude? — 56**
- 5 The Sine Theorem — 60**
- 6 The Solar Year and the Motion of Solar Apogee — 68**
- 7 The Size of the Sun — 71**

8	al-Nayrīzī and Ptolemy's <i>Planetary Hypotheses</i> — 73
9	The Oscillating Eccentrics of the Lower Planets — 88
10	The Oscillating Epicycles — 93
11	Ptolemaic Planetary Parameters and New Observations — 97

al-Maqāla al-muḍāfa

12	Introduction to the Critical Edition — 103
12.1	The Manuscripts of the <i>Addendum</i> — 110
12.1.1	MS London, British Library, Or 1119 (MS A) — 110
12.1.2	MS Oxford, Bodleian Library, Pococke, 111 (MS P) — 111
12.1.3	MS London, British Library, Or 7368 (MS B) — 112
12.1.4	MS Istanbul, Nuruosmaniye, 2710 (MS T) — 116
12.1.5	MS Cairo, Maktabat al-Azhar, 25515 (MS I) — 119
12.1.6	MS Paris, Bibliothèque nationale de France, Arabe 2484 (MS J) — 120
12.1.7	MS Istanbul, Süleymaniye, Ayasofya, 2442 (MS D) — 120
12.1.8	MS Istanbul, Süleymaniye, Carullah Efendi, 1424 (MS R) — 123
12.1.9	MS Istanbul, Süleymaniye, Damat İbrahim Paşa, 822 (MS Š) — 124
12.1.10	MS Oxford, Bodleian Library, Pococke, 250 (MS Ş) — 125
12.1.11	MS Damascus, al-Maktaba al-Zāhiriyya, 6752 (MS Z) — 126
12.1.12	MS Istanbul, Süleymaniye, Ayasofya, 2720 (MS Ğ) — 126
12.1.13	MS Leiden, Universiteit Leiden, Or. 84 (MS L) — 127
12.1.14	MS Istanbul, Süleymaniye, Yeni Cami, 770, (MS F) — 127
12.1.15	MS Istanbul, Nuruosmaniye, 2709 (MS M) — 128
12.1.16	MS Tehran, Dānishgāh-i Tihirān, 243 (MS N) — 129
12.1.17	MS Istanbul, Süleymaniye, Ayasofya, 2589 (MS K) — 130
12.1.18	MS Istanbul, Topkapı Sarayı, Ahmet III, 3303 (MS Q) — 130
12.1.19	MS Khoy, Kitābkhāna-yi Madrasa-yi Namāzī, 247 (MS Y) — 130
12.1.20	MS Tehran, Kitābkhāna-yi Majlis-i Shūrā-yi Islāmī, 1893 (MS W) — 131
12.1.21	MS Istanbul, Millet, Hekimoğlu Ali Paşa, 857 (MS H) — 131
12.2	The Diagram of the <i>Addendum</i> — 132
13	Text and Translation — 137

Glossary — 155

Bibliographical References — 158

Index — 165