

BERNARD R. GOLDSTEIN
LIST OF PUBLICATIONS: 1964–2012

A. Books and Monographs:

1. *The Arabic Version of Ptolemy's Planetary Hypotheses*. Transactions of the American Philosophical Society, 57.4. Philadelphia: American Philosophical Society, 1967.
2. *Ibn al-Muthannā's Commentary on the Astronomical Tables of al-Khwārizmī*. Two Hebrew versions, edited and translated, with an astronomical commentary. New Haven: Yale University Press, 1967.
3. *Al-Biṭrūjī: On the Principles of Astronomy*. Vol. 1: Analysis and Translation; Vol. 2: The Arabic and Hebrew versions. Yale Studies in the History of Science and Medicine, 7. New Haven: Yale University Press, 1971.
4. *The Astronomical Tables of Levi ben Gerson*. Transactions of the Connecticut Academy of Arts and Sciences, 45. Hamden, CT: Archon Books, 1974.
5. *The Astronomy of Levi ben Gerson (1288–1344)*. New York: Springer-Verlag, 1985.
6. *Theory and Observation in Ancient and Medieval Astronomy*. A collection of 24 essays, revised with a new preface. London: Variorum, 1985.
7. *From Ancient Omens to Statistical Mechanics: Essays on the Exact Sciences Presented to Asger Aaboe*, edited with J. L. Berggren. Copenhagen: University Library, 1987.
8. *Levi ben Gerson's Prognostication for the Conjunction of 1345*. Transactions of the American Philosophical Society, 80.6. Philadelphia: American Philosophical Society, 1990 [with David Pingree].
9. *Astronomy in the Iberian Peninsula: Abraham Zacut and the Transition from Manuscript to Print*. Transactions of the American Philosophical Society, 90.2. Philadelphia: American Philosophical Society, 2000 [with José Chabás].
10. *The Alfonsine Tables of Toledo*. Archimedes: New Studies in the History and Philosophy of Science and Technology, 8. Dordrecht: Kluwer, 2003 [with José Chabás].
11. *From Summetria to Symmetry: The Making of a Revolutionary Scientific Concept*. Archimedes: New Studies in the History and Philosophy of Science and Technology, 20. Dordrecht: Springer, 2008 [with Giora Hon].
12. *Las Tablas Alfonsíes de Toledo*. A Spanish translation of A.10. Toledo: Diputación Provincial de Toledo, 2008 [with José Chabás].
13. *The Astronomical Tables of Giovanni Bianchini*. Leiden: Brill, 2009 [with José Chabás].
14. *Abraham Zacut (1452-1515) y la astronomía en la Península Ibérica*. A Spanish translation of A.9. Salamanca: Ediciones Universidad de Salamanca, 2009 [with José Chabás].
15. *A Survey of European Astronomical Tables in the Late Middle Ages*. Leiden: Brill, 2012 [with José Chabás].

B. Periodical Articles:

1. "A Medieval Table for Reckoning Time from Solar Altitude", *Scripta Mathematica*, 27 (1964), 61–66.
2. "The Book on Eclipses of Māshā'allāh", *Physis*, 6 (1964), 205–213.
3. "A Treatise on Number Theory from a Tenth Century Arabic Source", *Centaurus*, 10 (1964), 129–160.
4. "Evidence for a Supernova of A.D. 1006", *The Astronomical Journal*, 70 (1965), 106–114.
5. "On the Theory of Trepidation", *Centaurus*, 10 (1965), 232–247.
6. "The 1006 Supernova in Far Eastern Sources", *The Astronomical Journal*, 70 (1965), 748–753 [with Ho Peng Yoke].
7. "The Medieval Hebrew Tradition in Astronomy", *Journal of the American Oriental Society*, 85 (1965), 145–148.
8. "The X-ray Source Sco X-3", *Nature*, 211 (30 July 1966), 504.
9. "A Note on the Metonic Cycle", *Isis*, 57 (1966), 115–116.
10. "The Town of Ezob/Aurayca", *Revue des Etudes Juives*, 126 (1967), 269–271.
11. "Medieval Astronomy According to Hebrew Sources", *Koroth*, 4 (1968), 679–690 [in Hebrew with an English summary].
12. "Ibn Irāk", *Encyclopaedia of Islam*, 2nd edn., 1969, 2:808.
13. "Ibn al-Šaffār", *Encyclopaedia of Islam*, 2nd edn., 1969, 2:924.
14. "Ibn Yūnus", *Encyclopaedia of Islam*, 2nd edn., 1969, 2:969–970.
15. "Preliminary Remarks on Levi ben Gerson's Contributions to Astronomy", *Proceedings of the Israel Academy of Sciences and Humanities*, 3 (1969), 239–254.
16. "Some Medieval Reports of Venus and Mercury Transits", *Centaurus*, 14 (1969), 49–59.
17. "Planetary Distances and Sizes in an Anonymous Arabic Treatise Preserved in Bodleian Ms. Marsh 621", *Centaurus*, 15 (1970–71), 135–170 [with Noel Swerdlow].
18. "The Jewish Contribution to Astronomy in the Middle Ages", in L. Finkelstein (ed.), *The Jews*. New York: Schocken Books, 1971, 3:270–275.
19. "Theory and Observation in Medieval Astronomy", *Isis*, 63 (1972), 39–47.
20. "Levi ben Gerson's Lunar Model", *Centaurus*, 16 (1972), 257–284.
21. "On an Error in the Babylonian Table of Pythagorean Triples", *Centaurus*, 18 (1974), 64–66 [with Christopher Anagnostakis].
22. "Levi ben Gerson's Preliminary Lunar Model", *Centaurus*, 18 (1974), 275–288.
23. "Levi ben Gerson's Analysis of Precession", *Journal for the History of Astronomy*, 6 (1975), 31–41.
24. "The Hebrew Astrolabe in the Adler Planetarium", *Journal of Near Eastern Studies*, 35 (1976), 251–260.
25. "Astronomical and Astrological Themes in the Philosophical Works of Levi ben Gerson", *Archives Internationales d'Histoire des Sciences*, 26 (1976), 221–224.
26. "Refraction, Twilight, and the Height of the Atmosphere", *Vistas in Astronomy*, 20 (1976), 105–107.
27. "Horoscopes from the Cairo Geniza", *Journal of Near Eastern Studies*, 36 (1977), 113–144 [with David Pingree].
28. "Remarks on Ptolemy's Equant Model in Islamic Astronomy", in Y. Maeyama and W. G. Salzer (ed.), *Prismata: Festschrift für Willy Hartner*. Wiesbaden: Franz Steiner Verlag, 1977, pp. 165–181 [with Frederick W. Sawyer, III].
29. "Ibn Mu'ādh's Treatise on Twilight and the Height of the Atmosphere", *Archive for History of Exact Sciences*, 17 (1977), 97–118.
30. "Levi ben Gerson: On Instrumental Errors and the Transversal Scale", *Journal for History of Astronomy*, 8 (1977), 102–112.

31. "The Astronomical Tables of al-Khwārizmī in a Nineteenth Century Egyptian Text", *Journal of the American Oriental Society*, 98 (1978), 96–99 [with David Pingree].
32. "The Role of Science in the Jewish Community in Fourteenth Century France", *Annals of the New York Academy of Sciences*, 314 (1978), 39–49.
33. "Astrological Almanacs from the Cairo Geniza", *Journal of Near Eastern Studies*, 38 (1979), 153–175, 231–256 [with David Pingree].
34. "The Survival of Arabic Astronomy in Hebrew", *Journal for the History of Arabic Science*, 3 (1979), 31–39.
35. "Medieval Observations of Solar and Lunar Eclipses", *Archives Internationales d'Histoire des Sciences*, 29 (1979), 101–156.
36. "Solar and Lunar Velocities in the Alfonsine Tables", *Historia Mathematica*, 7 (1980), 134–140.
37. "The Status of Models in Ancient and Medieval Astronomy", *Centaurus*, 24 (1980), 132–147.
38. "Babylonian Solar Theory Reconsidered", *Archives Internationales d'Histoire des Sciences*, 30 (1980), 189–191.
39. "More Horoscopes from the Cairo Geniza", *Proceedings of the American Philosophical Society*, 125 (1981), 155–189 [with David Pingree].
40. "The Hebrew Astronomical Tradition: New Sources", *Isis*, 72 (1981), 237–251.
41. "Astronomical Computations for 1299 from the Cairo Geniza", *Centaurus*, 25 (1982), 303–318 [with David Pingree].
42. "A Hispano-Arabic Astrolabe with Hebrew Star Names", *Annali dell'Istituto e Museo di Storia della Scienza di Firenze*, 8 (1983), 19–29 [with George Saliba].
43. "A New View of Early Greek Astronomy", *Isis*, 74 (1983), 330–340 [with Alan C. Bowen].
44. "The Obliquity of the Ecliptic in Ancient Greek Astronomy", *Archives Internationales d'Histoire des Sciences*, 33 (1983), 3–14.
45. "Additional Astrological Almanacs from the Cairo Geniza", *Journal of the American Oriental Society*, 103 (1983), 673–690 [with David Pingree].
46. "Is Seventeenth Century Physics Indebted to the Stoics?", *Centaurus*, 27 (1984), 148–164 [with Peter Barker].
47. "Eratosthenes on the 'Measurement' of the Earth", *Historia Mathematica*, 11 (1984), 411–416.
48. "Scientific Traditions in Late Medieval Jewish Communities", in G. Dahan (ed.), *Les Juifs au regard de l'histoire: Mélanges en l'honneur de M. Bernhard Blumenkranz*. Paris: Picard, 1985, pp. 235–247.
49. "Star Lists in Hebrew", *Centaurus*, 28 (1985), 185–208.
50. "Preliminary Remarks on Levi ben Gerson's Cosmology", in D. Novak and N. Samuelson (eds.), *Creation and the End of Days*. Lanham: University Press of America, 1986, pp. 261–276.
51. "Levi ben Gerson's Theory of Planetary Distances", *Centaurus*, 29 (1986), 272–313.
52. "The Making of Astronomy in Early Islam", *Nuncius: Journal of the History of Science*, 1 (1986), 79–92.
53. "Descriptions of Astronomical Instruments in Hebrew", in D. A. King and G. Saliba (eds.), *Essays in Honor of E. S. Kennedy. Annals of the New York Academy of Sciences*, 500 (1987), 105–141.
54. "Remarks on Gemma Frisius's *De Radio Astronomico et Geometrico*", in J. L. Berggren and B. R. Goldstein (eds.), *From Ancient Omens to Statistical Mechanics: Essays on the Exact Sciences presented to Asger Aaboe*. Copenhagen: University Library, 1987, pp. 167–179.
55. "Towards a Philosophy of Ptolemaic Planetary Astronomy", *Ancient Philosophy*, 5 (1985), 293–303 [appeared in May 1987].

56. "A New Set of Fourteenth Century Planetary Observations", *Proceedings of the American Philosophical Society*, 132 (1988), 371–399.
57. "The Role of Comets in the Copernician Revolution", *Studies in History and Philosophy of Science*, 19 (1988), 299–319 [with Peter Barker].
58. "Meton of Athens and Astronomy in the Late Fifth Century B.C.", in E. Leichty, M. deJ. Ellis, and P. Gerardi (eds.), *A Scientific Humanist: Studies in Memory of Abraham Sachs*. Philadelphia: University Museum, 1988, pp. 39–81 [with Alan C. Bowen].
59. "On Early Hellenistic Astronomy: Timocharis and the First Callippic Calendar", *Centaurus*, 32 (1989), 272–293 [with Alan C. Bowen].
60. "The Festivals of Israel and Judah and the Literary History of the Pentateuch", *Journal of the American Oriental Society*, 110 (1990), 19–31 [with Alan Cooper].
61. "Galileo's Account of Astronomical Miracles in the Bible: A Confusion of Sources", *Nuncius: Journal of the History of Science*, 5 (1990), 3–16.
62. "Levi ben Gerson: On Astronomy and Physical Experiments", in S. Unguru (ed.), *Physics, Cosmology, and Astronomy, 1300–1700: Tension and Accomodation*. Dordrecht: Kluwer, 1991, pp. 75–82.
63. "Hipparchus' Treatment of Early Greek Astronomy", *Proceedings of the American Philosophical Society*, 135 (1991), 233–254 [with Alan C. Bowen].
64. "The Introduction of Dated Observations and Precise Measurement in Greek Astronomy", *Archive for History of Exact Sciences* 43 (1991), 93–132 [with Alan C. Bowen].
65. "The Blasphemy of Alfonso X: History or Myth?" in P. Barker and R. Ariew (eds.), *Revolution and Continuity: Essays in the History and Philosophy of Early Modern Science*. Washington, DC: Catholic University of America Press, 1991, pp. 143–153.
66. "Biblical Literature in the Iron(ic) Age", *Hebrew Studies*, 32 (1991), 45–60 [with Alan Cooper].
67. "Levi ben Gerson's Astrology in Historical Perspective", in G. Dahan (ed.), *Gersonide en son temps*. Louvain-Paris: Peeters, 1991, pp. 287–300.
68. "Lunar Velocity in the Ptolemaic Tradition", in P. M. Harman and A. E. Shapiro (eds.), *The investigation of difficult things: Essays on Newton and the history of the exact sciences*. Cambridge: Cambridge University Press 1992, pp. 3–17.
69. "Nicholaus de Heybech and his Table for Finding True Syzygy", *Historia Mathematica*, 19 (1992), 265–289 [with José Chabás].
70. "Levi ben Gerson's Contributions to Astronomy", in G. Freudenthal (ed.), *Studies on Gersonides: A Fourteenth-Century Jewish Philosopher-Scientist*. Leiden: Brill, 1992, pp. 3–19.
71. "Exodus and Maṣṣot in History and Tradition", *Maarav*, 8 (1992), 15–37 [with Alan Cooper].
72. "The Cult of the Dead and the Theme of Entry into the Land", *Biblical Interpretation*, 1 (1993), 285–303 [with Alan Cooper].
73. "The Medieval Hebrew and Italian Versions of Ibn Mu'adh's 'On Twilight and the Rising of Clouds'", *Nuncius: Journal of the History of Science*, 8 (1993), 611–643 [with A. Mark Smith].
74. "Distance and Velocity in Kepler's Astronomy", *Annals of Science*, 51 (1994), 59–73 [with Peter Barker].
75. "Planetary and Lunar Velocities in the Castilian Alfonsine Tables", *Proceedings of the American Philosophical Society*, 138 (1994), 61–95 [with José Luis Mancha and José Chabás].
76. "Historical Perspectives on Copernicus's Account of Precession", *Journal for the History of Astronomy*, 25 (1994), 189–197.
77. "Andalusian Astronomy: *al-Zij al-Muqtabis* of Ibn al-Kammād", *Archive for History of Exact Sciences*, 48 (1994), 1–41 [with José Chabás].

78. "Aristarchus, Thales, and Heraclitus on Solar Eclipses: An Astronomical Commentary on P. Oxy. 53.3710 cols. 2.33–3.19", *Physis*, 31 (1994), 689–729 [with Alan C. Bowen].
79. "Histoire de la science arabe: Rapport sur les conférences de l'année 1985–86", *Livret: École Pratique des Hautes Études, Sciences historiques et philologiques*, 4 (1994), 88.
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82. "The Pre-Telescopic Treatment of the Phases and Apparent Size of Venus", *Journal for the History of Astronomy*, 27 (1996), 1–12.
83. "The heritage of Arabic science in Hebrew", in R. Rashed (ed.), *Encyclopedia of the History of Arabic Science*, 3 vols. London: Routledge, 1996. 1:276–283; reprinted in M. Iqbal (ed.), *Studies in the Making of Islamic Science: Knowledge in Motion*. Burlington, VT: Ashgate, 2012, pp. 65–74.
84. "Astronomy and Astrology in the Works of Abraham Ibn Ezra", *Arabic Sciences and Philosophy*, 6 (1996), 9–21.
85. "Geminus and the Concept of Mean Motion in Greco-Latin Astronomy", *Archive for History of Exact Sciences*, 50 (1996), 157–185 [with Alan C. Bowen].
86. "Ibn al-Kammād's Star List", *Centaurus*, 38 (1996), 317–334 [with José Chabás].
87. "Levi ben Gerson and the Brightness of Mars", *Journal for the History of Astronomy*, 27 (1996), 297–300.
88. "Lunar Velocity in the Middle Ages: A Comparative Study", in J. Casulleras and J. Samsó (eds.), *From Baghdad to Barcelona: Studies in the Islamic Exact Sciences in Honour of Prof. Juan Vernet*, 2 vols. Barcelona: Instituto "Millás Vallicrosa", 1996. 1:181–194.
89. "Saving the Phenomena: The Background to Ptolemy's Planetary Theory", *Journal for the History of Astronomy*, 28 (1997), 1–12.
90. "Computational Astronomy: Five Centuries of Finding True Syzygy", *Journal for the History of Astronomy*, 28 (1997), 93–105 [with José Chabás].
91. "At the Entrance to the Tent: More Cultic Resonances in Biblical Narrative", *Journal of Biblical Literature*, 116 (1997), 201–215 [with Alan Cooper].
92. "The Physical Astronomy of Levi ben Gerson", *Perspectives on Science*, 5 (1997), 1–30.
93. "Nicolas Copernic: Si la terre était une planète ...", *Les Cahiers de Science & Vie*, Hors série, No. 39 (June 1997), 26–37.
94. "What's New in Kepler's New Astronomy?" in J. Earman and J. D. Norton (eds.), *The Cosmos of Science: Essays of Exploration*. Pittsburgh: University of Pittsburgh Press, 1997, pp. 3–23.
95. "L'héritage de la science arabe en hébreu", in R. Rashed (ed.), *Histoire des sciences arabes*, 3 vols. Paris: Editions du Seuil, 1997. 1:301–308. [French trans. of item 83]
96. "Abraham Zacut and the Medieval Hebrew Astronomical Tradition", *Journal for the History of Astronomy*, 29 (1998), 177–186.
97. "Some Astronomical Tables of Abraham Zacut Preserved in Segovia", *Physis*, 35 (1998), 1–10 [with José Chabás].
98. "Realism and Instrumentalism in Sixteenth Century Astronomy: A Reappraisal", *Perspectives on Science*, 6 (1998), 232–258 [with Peter Barker].
99. "Astronomy in the Medieval Spanish Jewish Community", in L. Nauta and A. Vanderjagt (eds.), *Between Demonstration and Imagination: Essays in the History of Science and Philosophy Presented to John D. North*. Leiden: Brill, 1999, pp. 225–241.
100. "An Occultation of Venus Observed by Abraham Zacut in 1476", *Journal for the History of Astronomy*, 30 (1999), 187–200 [with José Chabás].
101. "The Role of Observations in Ptolemy's Lunar Theories", in N. M. Swerdlow (ed.), *Ancient Astronomy and Celestial Divination*. Publications of the Dibner Institute for the History of Science and Technology. Cambridge, MA: MIT Press, 1999, pp. 341–356 [with Alan C. Bowen].

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103. "Before the Sun in the Church", *Journal for the History of Astronomy*, 32 (2001), 73–77.
104. "Kepler and Hebrew Astronomical Tables", *Journal for the History of Astronomy*, 32 (2001), 130–136.
105. "Theological Foundations of Kepler's Astronomy", *Osiris*, 16 (2001), 88–113 [with Peter Barker].
106. "The Maximum Solar Equation in the Alfonsine Tables", *Journal for the History of Astronomy*, 32 (2001), 345–348 [with José Chabás].
107. "Astronomical Handbooks and Tables from the Islamic World (750–1900): An Interim Report", by David A. King and Julio Samsó, with a contribution by B. R. Goldstein, *Suhayl*, 2 (2001), 9–105.
108. "The Astronomical Tables of Judah ben Verga", *Suhayl*, 2 (2001), 227–289.
109. "On The Babylonian Discovery of the Periods of Lunar Motion", *Journal for the History of Astronomy*, 33 (2002), 1–13.
110. "Levi ben Gerson's Preliminary Remarks for a Theory of Planetary Latitudes", *Aleph*, 2 (2002), 15–30.
111. "Copernicus and the Origin of his Heliocentric System", *Journal for the History of Astronomy*, 33 (2002), 219–235.
112. "Science as a 'Neutral Zone' for Interreligious Cooperation", *Early Science and Medicine*, 7 (2002), 290–291, 302–305.
113. "An Anonymous Zij in Hebrew for 1400 A.D.: A Preliminary Report", *Archive for History of Exact Sciences*, 57 (2003), 251–271.
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115. "John Vimond and the Alfonsine Trepidation Model", *Journal for the History of Astronomy*, 34 (2003), 163–170 [with José Chabás].
116. "Patronage and the Production of *De Revolutionibus*", *Journal for the History of Astronomy*, 34 (2003), 345–368 [with Peter Barker].
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119. "Symmetry in Copernicus and Galileo", *Journal for the History of Astronomy*, 35 (2004), 273–292 [with Giora Hon].
120. "Ptolemy, Bianchini, and Copernicus: Tables for Planetary Latitudes", *Archive for History of Exact Sciences*, 58 (2004) 453–473 [with José Chabás].
121. "Early Alfonsine Astronomy in Paris: The Tables of John Vimond (1320)", *Suhayl*, 4 (2004), 207–294 [with José Chabás].
122. "Preliminary Remarks on Judah ben Verga's Contributions to Astronomy", in L. Saraiva and H. Leitão (eds.), *The Practice of Mathematics in Portugal: Papers from the International Meeting held at Óbidos [Portugal], 16–18 November 2000*. Coimbra: Coimbra University Press, 2004, pp. 63–90.
123. "Legendre's Revolution (1794): The Definition of Symmetry in Solid Geometry", *Archive for History of Exact Sciences*, 59 (2005), 107–155 [with Giora Hon].
124. "From Proportion to Balance: The Background to Symmetry in Science", *Studies in History and Philosophy of Science*, 36 (2005), 1–21 [with Giora Hon].
125. "Kepler's Move from *Orbs* to *Orbits*: Documenting a Revolutionary Scientific Concept", *Perspectives on Science*, 13 (2005), 74–111 [with Giora Hon].
126. "How Einstein Made Asymmetry Disappear: Symmetry and Relativity in 1905", *Archive for History of Exact Sciences*, 59 (2005), 437–544 [with Giora Hon].
127. "Colors of Eclipses in Medieval Hebrew Astronomical Tables", *Aleph*, 5 (2005), 11–34.

128. "Obituary: David E. Pingree (1933–2005)", *Aestimatio*, 2 (2005), 71–72 [with Kim Plofker].
129. "Isaac Ibn al-Ḥadib and Flavius Mithridates: The Diffusion of an Iberian Astronomical Tradition in the Late Middle Ages", *Journal for the History of Astronomy*, 37 (2006), 147–172 [with José Chabás].
130. "Adding velocities without exceeding the velocity of light: Wilhelm Wien's algorithm (1904) and Albert Einstein's light postulate (1905)", *Centaurus*, 48 (2006), 89–113 [with Giora Hon].
131. "Symmetry and asymmetry in electrodynamics from Rowland to Einstein", *Studies in History and Philosophy of Modern Physics*, 37 (2006), 635–660 [with Giora Hon].
132. "Unpacking 'For reasons of symmetry': Two Categories of Symmetry Arguments", *Philosophy of Science*, 73 (2006), 419–439 [with Giora Hon].
133. "Celestial Charts and Spherical Triangles: The Unifying Power of Symmetry", *Journal for the History of Astronomy*, 38 (2007), 1–14 [with Giora Hon].
134. "Obituary: Asger Hartvig Aaboe (1922–2007)", *Journal for the History of Astronomy*, 38 (2007), 261–263.
135. "What's New in Ptolemy's *Almagest*?", *Nuncius*, 22 (2007), 261–285.
136. "The Status of Models in Ancient and Medieval Astronomy", reprinted in a special anniversary issue, *Centaurus*, 50 (2008), 168–183. See item 37.
137. "Commentary on: 'The Status of Models in Ancient and Medieval Astronomy'", *Centaurus*, 50 (2008), 184–188.
138. "Transmission of computational methods within the Alfonsine corpus: the case of the tables of Nicholas de Heybech", *Journal for the History of Astronomy*, 39 (2008), 345–355 [with José Chabás].
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153. "Levi ben Gerson on the Principles of Cosmology" *Aleph*, 12 (2012), 17–35.

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C. Reviews:

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4. M. Steinschneider, *Mathematik bei den Juden*, 2nd edn. Hildesheim: Olms Verlag, 1964; in *Mathematical Reviews*, 33 (1967), 657–658.
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