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Edward S. Kennedy Collection, 1952-2010

A Finding Aid to the Collection at the University Libraries, AUB
Prepared by Samar Mikati, Iman Abdallah, and Shaden Dada

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Descriptive Summary

Call No.: AA:6.2.11.2

Library Catalog ID: [b25905375](#)

Record Creator: Kennedy, E.S. (Edward Stewart), 1912-2009.

Collection Title: Edward S. Kennedy Collection, 1952-2010.

Collection Dates: 1952-2010

Physical Description: 3 linear feet (7 boxes and 2 tin boxes)

Abstract: This collection of Dr. E.S. Kennedy's papers includes archival material, manuscripts reproductions, correspondence on the history of astronomy and mathematics in the Islamic World (al-Biruni, al-Battani, Ulugh Beg). It unveils Kennedy's research, interest, and passion in oriental sciences and reveals his extensive work and widespread cooperation with prominent scholars (Swerdlow, Eisenhart) around the Globe.

Language(s): English, Persian, and Arabic

Administrative Information

Source: The collection was donated by the family of Edward Kennedy represented by his wife, Mary Hellen Kennedy, and his daughter, Nora Wallace Kennedy in 2016.

Access Restrictions: The collection can be consulted within the premises of the Archives and Special Collections Department, Jafet Memorial Library, American University of Beirut.

Photocopying Restriction: No photocopying restriction except for fragile material.

Preferred Citation: Edward S. Kennedy Collection, 1952-2010, AA:6.2.11.2, Series no., Box no., File no., American University of Beirut/Library Archives

Scope and Content

The collection consists of Edward Kennedy's research and his notes on Islamic and Arab astronomy contributions. It also includes Kennedy's correspondence with prominent scholars interested and involved in the study of Arab sciences around the world, copies of manuscripts by al-Biruni, and information about different conferences on Islamic Sciences. It is of interest to researchers in Islamic sciences and Astronomy etc.

Arrangement

The collection is arranged in seven series:

Series I: Biography & Honoring

Series II: Articles by him

Series III: Kennedy's Correspondence and Research

A. Research notes and correspondence with other researchers

B. Research material: photocopies of manuscripts & other publications

Series IV: Conferences, 1994-2001

Series V: Photographs: Digital, negatives & slides

Series VI: E.S. Kennedy's Book Collection

Series VII: Miscellany

Biographical Sketch

Edward Stewart Kennedy was born in San Ángel, Mexico, in 1912. He graduated with a B.S. in electrical engineering from Lafayette College in Easton in 1932; then taught at Alborz College, a secondary school for boys, run by the American Presbyterian Mission outside Tehran, Iran, 1932-1936.

He returned to the United States, joining Lehigh University to pursue his MA, 1937, and Ph.D., 1939, in mathematics. During his time at the University of Alabama as an assistant professor, 1939-1941, he began to publish his research on medieval Islamic astrolabes. He then served in the United States Army between the years 1941 and 1945.

In 1946, Kennedy accepted a professorship at the American University of Beirut, where he taught at the Department of Mathematics until he retired in 1977 as Professor Emeritus. During his tenure at AUB, he served on several committees, including the Faculty of Arts and Sciences (FAS) Advisory Committee and the University Senate.

Kennedy's research interests focused on exact sciences in the medieval Islamic world through his translation and analysis of rare scientific Arabic manuscripts. After retirement, he sustained his research at the American Research Center in Egypt (1976-1978), the Institute for the History of Arab Science in Aleppo (1978-1980), and at fur Geschichte der Arabisch-Islamischen Wissenschaften (1984-1987).

Kennedy's illustrious career as a math historian led in 2001 to his appointment by Crown Prince Hassan of Jordan as a member of the Order of al Istiqlal for his contribution to the study of Islamic culture.

A prolific writer and researcher, Kennedy wrote about a dozen books, around 120 academic papers, and 170 mathematical sews, including several published books on medieval scholars like al-Biruni (3), Ibn al-Shatīr (1), and al-Kashi (2).

Subject Headings

Al-Bīrūnī, Muhammad ibn Ahmad, 973? -1048.

Al-Kashī, Imad al-Din Yahya bin Ahmad.

Ibn al-Shatir, `Ali ibn Ibrahim, 1304-1375.

Astronomy, Arab -- Early works to 1800.

Astrology, Arab -- Early works to 1800.

Planetary theory -- History.

البيروني، ابو الريحان محمد بن احمد، ٩٧٣-١٠٤٨.

الكاشي، عماد الدين يحيى بن أحمد.

ابن الشاطر، علاء الدين علي بن إبراهيم، ١٣٠٤-١٣٧٥.

علم الفلك العربي -- اعمال قديمة حتى ١٨٠٠.

علم التنجيم العربي -- اعمال قديمة حتى ١٨٠٠.

النظرية الكوكبية -- تاريخ.

Container List

Series I: Biography (AUBite File)

Biography, Bibliography and letter of appointment at AUB

- Kennedy, Edward Stewart in AUB Staff Directory, printed in 2004
- Library bibliographic record/library catalog card for Kennedy, E. S. (1991). An Astrological History Based on the Career of Genghis Khan. *Quest for understanding: Arabic and Islamic studies in memory of Malcolm H. Kerr* (p. 223-231)
- Letter of Appointment for Professor Edward S. Kennedy at American University of Beirut, 1954-07-26

Honoring

- Professor Edward Kennedy Awarded by Jordan. (2002). *AUBulletin* (volume 3, p. 3)
- Edward Kennedy Biography as featured in *Great Scholar – Teachers, Ceremony Assembly Hall* (p. 21-22), 2000-06-28

Memorial Ceremony and Obituary

- Email from FAS Dean Khalil Bitar to AUB Community regarding the Death of Former AUB Professor of Mathematics Edward S. Kennedy, 2009-05-11
- Death of Former AUB Professor of Mathematics Edward S. Kennedy, *AUBulletin Today*, May 2009 Vol. 10 No. 7
- Emails exchanged between Samar Mikati & Nora Kennedy, [regarding the passing of Edward S. Kennedy], paying condolences and attaching the obituary, 2009-05-12
- [Obituary] by Moustafa Mawaldi. *In Commemoration of Professor Doctor Edward Kennedy*, [2009] = كلمة تأبين الاستاذ الدكتور ادوارد كندي
- Address by David King, Memorial service for Ted Kennedy, [2009]
- Damen, Benno van (2010). In Memoriam: Edward S. Kennedy – 1912-2009. *Historia Mathematica* (volume 37, p. 159-163)
- E. S. Kennedy (1912-2009): A Bibliography, Version 28 July 2009
- Obituary: E. S. Kennedy (2 copies)
- In Memoriam: Edward S. Kennedy (1912-2009), *Suhayl* 9 (2009-2010), pp. 185-214

Presentation about Edward S. Kennedy

- International Union of History and Philosophy of Science – Division of History of Science and Technology – IUHPSU/DHST (2009). XXIII International Congress of History of Science and Technology – Ideas and Instruments in Social Context – Program
- Presentation: Dalen, Benno van (2009). Methods for Correcting the Ascendants in Islamic zījes. *XXII International Congress of History of Science and Technology – Ideas and Instruments in Social Context*
- Email Correspondence: Chebaro, Kaoukab; Samsó Moya, Julio (2014). Documents related to Dr. Ted Kennedy
- Email Correspondence: Chebaro, Kaoukab; Mawaldi, Moustafa (2014). Correspondence/Photos, etc. from the late Dr. Kennedy?
- 7 Photographs of Edward S. Kennedy

Series II: Articles by him, 1952-1981

File 1: 1952-1969

- Kennedy, E. S. (1952). A fifteenth-century planetary computer: Al-Kāshī's "tabaq al-manāteq". II. Longitudes, Distances, and Equations of the Planets. *Isis*, 43(1), 42. <https://www.jstor.org/stable/pdf/227189.pdf>
- Kennedy, E. S. & Transue W. R. (1956). A Medieval Iterative Algorithm. *American Mathematical Monthly*, 63(2), 80-83b. doi: [10.2307/2306428](https://doi.org/10.2307/2306428)
- Kennedy, E. S. (1956). Parallax theory in Islamic astronomy. *Isis*, 47(1), 33-53. doi:[10.1086/348454](https://doi.org/10.1086/348454)
- Kennedy, E. S. (1957). Comets in Islamic Astronomy and Astrology. *Journal of Near Eastern Studies*, 16(1), 44-51. <https://www.jstor.org/stable/542464> (3 copies)
- Kennedy, E. S. (1958). The Sasanian Astronomical Handbook Zīj-I Shāh the Astrological Doctrine of "Transit" (Mamarr). *Journal of Near Eastern Studies*, 78(4), 246-262. doi: [10.2307/595788](https://doi.org/10.2307/595788) (2 copies)
- Kennedy, E. S. & Muruwwa, A. (1958). Bīrūnī on the Solar Equation. *Journal of Near Eastern Studies*, 17(2), 112-121. <https://www.jstor.org/stable/542617>
- Kennedy, E. S. (1959). Biruni's Graphical Determination of the Local Meridian. *Scripts Mathematica*, 24(3), 251-255.
- Kennedy, E. S. (1960). The Crescent Visibility Theory of Thabit bin Qurra. *Proceedings of the Mathematical and Physical Society of U. A. R.* No. 24, p. 71-74.
- Kennedy, E. S. (1962). Al Khwarizmi on the Jewish Calendar. *Scripts Mathematica*, 27(1), 55-59 (2 copies)
- Kennedy, E. S. (1962). Ramifications of the World-Year Concept in Islamic Astrology. *Paris: Hermann*
- Kennedy, E. S. (1963). The World-Year of the Persians. *Journal of the American Oriental Society*, 83(3), 315-327. doi: [10.2307/598071](https://doi.org/10.2307/598071) (2 copies)
- Kennedy, E. S. (1963). Al-Bīrūnī on determining the meridian. *The Mathematics Teacher*, 56(8), 635-637.
- Kennedy, E. S. (1966). Late medieval planetary theory. *Isis*, 57(3), no. 189, 365-378. doi:[10.1086/350144](https://doi.org/10.1086/350144)
- Salam, H., & Kennedy, E. S. (1967). Solar and lunar tables in early Islamic astronomy. *Journal of the American Oriental Society*, 87(4), 492-497. doi:[10.2307/597590](https://doi.org/10.2307/597590)
- Kennedy, E. S. (1966). A set of medieval tables for quick calculation of solar and lunar ephemerides. *Oriens*, 18-19; 1966 (1), 327-334.
- Kennedy, E. S. & Destombes, M. (1967) *Introduction to Kitab Al 'Amal bil Asturlab*. Hyderabad, India: The Da'iratu'l-Ma'arifil-Osmania.

- Kennedy, E. S. (1968). The Digital Computer and the History of the Exact Sciences. *Centaurus*, (1968), 12(2), 107-113
- Kennedy, E. S. & Ukashah, W. (1969). Al-Khwarizmi's Planetary Latitude Tables. *Centaurus* (1969), 14(1), 86-96.
- Kennedy, E. S., & Ukashah, W. (1969). The chandelier clock of ibn yūnis. *Isis*, 60(4), 543-545. [doi:10.1086/350541](https://doi.org/10.1086/350541)
- Id, Y., & Kennedy, E. S. (1969). A medieval proof of heron's formula. *The Mathematics Teacher*, 62(7), 585-587.
<https://www.jstor.org/stable/pdf/27958225.pdf>

File 2: 1970-1981

- Kennedy, E. S. & Farsi, Nazim (1970). The Solar Eclipse Technique of Yahya B. Abi Mansur. *Journal for the History of Astronomy* (1970), 20-38.
- Kennedy, E. S. (1970). The Equatorium of Abu Al-Salt. *Physis – Rivista Internazionale di Storia della Scienza*, 12; 1970; (1), 73-81
- Kennedy, E. S. (1977). The Solar Equation in the Zij of Yahya B. Abi Mansur. *Wiesbaden : Prismata – Naturwissenschaftliche Studien – Festschrift für Willy Hartner* 183-186.
- Kennedy, E. S. & Mawaldi, Mustafa (1979). Abu al-Wafa' and the Heron Theorems. *Journal for the History of Arabic Science* 3(1), 19-30.
- King, David A. & Kennedy, E. S. (1980). Ibn al-Majdi's Tables for Calculating Ephemerides. *Journal for the History of Arabic Science*, 4, 48-68.
- Kennedy, E. S. (1981). A Description of Zahiriyya (Damascus) MS 4871: A Philosophical and Scientific Collection. *Journal for the History of Arabic Science*, 5(1, 2), 85-108.

Series III: Kennedy's Correspondence and Research

A. Research notes and correspondence with other researchers

Box 1: Correspondence with other researchers

- **File 1-3: Jabir Al-Battani**
 - Correspondence with Jan Van Haagendijk, 1987
 - Commentary on al-Battani
 - Hartner on al-Battani
 - *[Abū 'Abd Allāh Muḥammad ibn Jābir ibn Sinān al-Raqqī al-Ḥarrānī al-Ṣābi' al-Battānī.] Hartner, [Willy] notes; annotated photocopies [Hartner, W.: Encyclopedia of Scientific Biographies on al-Battānī, p:507-516]*
 - Battani History
 - *Bibliography "BAT HIST" Battani History written on the spine; Mary Helen Kennedy says this is an important notebook! (26 July 2015). "TEXT &*

TRANSLATION" written cover in white paint; Manuscript: "on the Indications of Conjunctions and Eclipses" loose in front of binder; handwritten notes; photocopies.

- **File 4: Jamshid Al-Kashi**
 - Correspondence with Dr. Churchill Eisenhart, 1984; Marie-Therese Debarnot
 - remarks & figures for Treatise IV
(see Kennedy, E. S. and Debarnot, Marie. Thérèse (1979). "Al-Kāshī's Impractical Method of Determining the Solar Altitude." *Journal for the History of Arabic Science* 3: 219–227. (On the methods for the determination of the ascendant in the fifth treatise of Kāshī's Zīj.)
- **File 5: [Abd Al Rahman] Al Sufi**
 - [Abd Al Rahman] Al Sufi on the Celestial Globe
 - E.S. Kennedy typescript, notes & correspondence to Professor Sezgin, Elsbeth & Eckard, 1988
- **File 6: Ulugh Beg**

The History of Ulugh Beg, 1994-1998, Original manuscript, published paper, figures, and related correspondence & notes
[Ulugh Beg Mirza, the ruler of Transoxiana from 1409 to 1449, established in Samarqand his own observatory, one of the largest in the pre-modern era](#)
- **File 7: Otto E. Neugebauer**

Otto E. Neugebauer (May 26, 1899-February 19, 1990) by Noel "Schweissloch" Swerdlow, or Schweissloch's Memoire on Elephant; with correspondence exchanged with Swerdlow in 1992

Box 2: Research notes on Azyaj

- **Bound Volume I**
 - الزيج الشامل (زيج #٢٩)
 - كتاب الزيج الممتحن الشرواني المعروف بالمظفر، او، الزيج المظفري (زيج #٥٤)
 - Abstract of Leiden (Utrecht)
 - الزيج الفارسي (زيج #٢٢١)
 - كتاب الزيج الكبر ابن يونس المصري للحاكمي، او، الزيج الحاكمي (زيج #١٤)
 - الزيج المختار من ازياج (زيج #٥٧)
 - زيج البغدادي (جمال الدين ابو القاسم بن محفوظ المنجم) (زيج #٣)
 - كتاب التعليم في وضع التقويم (لابن يونس) (زيج #٢٢٢)
- **Bound Volume II**
 - كتاب الزيج الجديد، تحرير الشيخ ابن الشاطر، او، زيج ابن الشاطر (زيج #١١١)
 - الزيج الايلحاني (زيج #٦)
 - زيج الغ بيك (فارسي)
- **Bound Volume III**

- الزيج الممتحن [المأموتي؟]
- كتاب الزيج الجامع (لألفر كوشيار ابن [حباب] الحلبي) (زيج #٩)
- زيج ابو الوفا المجسطي

B. Research material: photocopies of manuscripts & other publications

Box 3&4: Research material on various astronomers

Box 3:

- **File 1:** Yahya Ibn Mansur Azyaj
 - Translation of Book of Retrogression & Descent = كتاب الرجوع والهبوط [pre-845] *in Arabic and Persian*
- **File 2:** Abu al-Wafa Buzhjani, [955-998]
 - ما يحتاج اليه الصانع من علم الهندسة، ١٩٧٩
edited & forward by Salih Ahmad al-Ali, 1979
- **File 3:** Al-Bīrūnī
 - A unique and unknown book of Al-Biruni by Sayyid Samad Husain Rivzi. Ghurrat-uz-zijat or Karama Tilaka or غرة الزيجات Photostat from “Islamic Culture, 37 (1963), 112-130 and other articles by Rizvi.

Box 4:

- **File 4:** ‘Alī ibn Ibrahim al-Ansari] or Ibn Al Shatir
 - زيج ابن الشاطر
- **File 5:** On Babylonian Planetary Theories, by Asger Aaboe. Centaurus 1958: vol. 5: no. 3-4: pp.209-277. doi:10.1111/j.1600-0498.1958.tb00499.x]
- **File 6:** Partial Solar Canon. (1877). Annotated photocopied pages from Canon of Lunar Eclipse by [Theodor von] Oppolzer. Notes divided into 4 sections explaining Lunar Canon, Solar Canon, during Julian Years
- **File 7:** Jabra on configuring the universe, 1997
- **File 8:** Yano on the first equation table for Mercury in the Huihui Li, 1998
- **File 9:** Maeyama on Determination of the Sun’s Orbit, 1998
- **File 10:** Various papers on astronomy, 1955-2003 (13 articles)

Series IV: Conferences, 1994-2001

Box 5 File 1

- Symposium on Science & Technology in the Turkish & Islamic World, The History of the Medieval Exact Sciences, Astronomy in Islamic Civilization Conference, 1994
- La Science Dans Le Monde Iranien, 1995
- XXth International Congress of History of Science, 1997
- New Perspective on Science in Medieval Islam, Institute for Advanced study, Glimpse of Late Timurid Culture, 1998

Box 5 File 2

- Conference on Islam and Science, Jordan, 2001
- Transparencies of ESK drawings and manuscripts
- Email correspondence printouts.

Series V: Photographs

Digital photographs

Series IV.1: Syria, 5 photos

A: Hama–Syria, summer 1978:

Photo 1: Trip with staff from University of Aleppo to Abu Qubays - Hama, summer 1978.

Photo 2: Trip with staff from University of Aleppo to Masyaf castle - Hama, summer 1978.

Photo 3: Trip with staff from University of Aleppo to Wadi al Uyun - Hama, summer 1978.

B: University of Aleppo – Syria 1981, 1982 معهد التراث في جامعة حلب- سورية

Photo 4: Edward S. Kennedy in a conference room at the University of Aleppo – Heritage Institute, - Syria 14/2/1981

Photo 5: Edward S. Kennedy in a meeting room at the University of Aleppo – Heritage Institute, Syria, 28/1/1982.

Series IV.2: France, 15 photos

Photo 6: Edward S. Kennedy and his wife Mary Helen Scanlon with Dr. Mustafa Mawaldi at Château de Fontainebleau, France, 1984 (2 copies)

Photo 7-8: Ph 7: Edward S. Kennedy and his wife Mary Helen Scanlon with Dr. Mustafa Mawaldi; Ph 8: Edward S. Kennedy with Dr. Mustafa Mawaldi and his wife at Jardin de Château de Fontainebleau, France, 1984

Photo 9-11: Edward S. Kennedy and his wife Mary Helen Scanlon with Dr. Mustafa Mawaldi and his wife at Forêt de Rambouillet, France, 23/4/1984

Photo 12-14: Edward S. Kennedy and his wife Mary Helen Scanlon with Dr. Mustafa Mawaldi and his wife, Château de Vaux le Vicomte, France, 9/4/1984

Photo 15-16: Edward S. Kennedy and his wife Mary Helen Scanlon with Dr. Mustafa Mawaldi and his wife at Cathédrale Notre Dame De Chartres, France, 23/4/1984

Photo 17-18: Edward S. Kennedy and his wife Mary Helen Scanlon with Dr. Mustafa Mawaldi and his wife at Château de Versailles, France, 23/4/1984

Photo 19: Edward S. Kennedy and his wife Mary Helen Scanlon with Dr. Mustafa Mawaldi and his wife and others at Château de Chantilly, France, 1986.

Photo 20: Forêt de Château de Chantilly, France, 1986.

Series IV.3: Personal photos, 5 photos

Photo 21: Portrait Edward S. Kennedy, 1982.

Photo 22: Edward S. Kennedy and his wife Mary Helen Scanlon, 1992.

Photo 23: Two portraits of Edward S. Kennedy, 1997.

Photo 24: Edward S. Kennedy and his wife Mary Helen Scanlon at Elche, Spain, 6/4/2002.

Negatives & slides

Box 5 File 3

- photographic negatives and prints
- 150 misc. slides; some titles: astrol.; astrolabe.
- Around 150 glass-mounted slides; miscellaneous sheet with 35 mm and 4x5 negatives

Series V: E.S. Kennedy's Book Collection

Box 6 File 4 This personal book collection of E.S. Kennedy's features over 60 titles in various languages (English, Persian, & Russian); covering the topics Kennedy studied most (Mathematics, Astronomy, & Astronomy in the Islamic World). Notable highlights include *The Almagest* by Ptolemy and "*Der Lehrbrief uber den Kreisumfang (ar-Risala al-Muhitiya)*" by Ghiyath al-Din Jamshid Ma'sud al-Kashī.

Series VII: Miscellany

Box 7 File 5

- Minutes of meeting of AUB Faculty of Arts and Sciences, Jan 1984
- Press Clippings

- Id, Yusif (1969). An Analemma Construction for Right and Oblique Ascensions. *The Mathematics Teacher* (1969), 62, 669-672
- Reviews section (1985). *Centaurus* (1985): vol. 28: pp. 62-80

Related Material at AUB

Archival Material

- [Lee Observatory Collection](#) Archives AA:1.8
- **Office of University Publications 1970** Archives AA:2.5.2.10.2
- Box 2 File 10: **Edward S. Kennedy**: "A Commentary upon [Al-Bīrūnī] Beiruni's Kitab Tahdid Al Amakin: "An 11th Century treaties on mathematical geography": Correspondence
- Box 4 File 20: Edward Stewart Kennedy "Studies in the Islamic Exact Sciences" edited by David King and Mary Helen Kennedy: Correspondence
- **Personnel Department, 1924- 2005** Archives AA:2.5.0.3 (6-7)
Box 7 File7: K-L; Professor Edward Kennedy Salary

Publications about Edward S. Kennedy

- Lorch, Richard (1985). Review of E. S. Kennedy, colleagues and former students, *Studies in the Islamic Exact Sciences. Centaurus* (1985), 28, 71

Publications

Books by Edward S. Kennedy

- کندی، ادوارد سٹیورٹ. [۱۹۵۲]. *نکتة هايي درباره هیأت اسلامي*. طهران، ایران: [د.ن.].
[CA 520.4:K35nP:c.1](#)
- Kennedy, E.S. (1956). A survey of Islamic astronomical tables, *Transactions of the American Philosophical Society*, Volume 46(pt. 2), p. 123-177.
[CA 520.8:K35s:c.1](#)
 - Kennedy. E. S. (1956). Parallax Theory in Islamic Astronomy. *Isis*, Volume 47(pt. 1, no. 147), p. 33-35. [CA 523.81:K35p:c.1](#)
 - Al-Bīrūnī, M. A., Kennedy, E. S., Şaffūrī, M., & Ifram, A. F. (1959). *Al-Bīrūnī on transits: A study of an Arabic treatise entitled Tamhīd al-mustaqarr li-taḥqīq ma'ná al-mamarr [romanized form]*. Beirut: American University of Beirut.
[CA:AUB 520:B619ra:c.1](#)
 - Al-Bīrūnī, M. A., & Kennedy, E. S. (1976). *Ifrād al-maqāl fī amr al-ẓilāl =: The exhaustive treatise on shadows*. Aleppo, Syria: Institute for the History of Arabic Science, University of Aleppo. [CA:AUB 520:B619raab:v.1:c.1](#)
 - Al-Bīrūnī, M. A., Kennedy, E. S., Şaffūrī, M., & Ifram, A. F. (1998). Islamic mathematics and astronomy. Volume 33, *al-Bīrūnī on transits: A study of an Arabic treatise entitled Tamhīd al-mustaqarr li-taḥqīq ma'ná al-mamarr*

- [romanized form]. Frankfurt am Main: Institute for the History of Arabic-Islamic Science, Johann Wolfgang Goethe University. [J 510.917:P976p:v.33](#)
- Kennedy, E. S. (1941). *Exponential analogues of the Lambert series*. [N.P.]: [American Journal of Mathematics].
 - Kennedy, E.S. (1962). *A medieval interpolation scheme using second order differences*. [London]: [Percy Lund, Humphries and Co.]. [J 517.6:K35m:c.1](#)
 - Kennedy, E. S., Pingree, D., Māshā'allāh, & Bayerische Staatsbibliothek. (1971). *The astrological history of Māshā'allāh*. Cambridge, Mass: Harvard University Press. [J 133.5:K35a:c.1](#)
 - Kennedy, E. S., Pingree, D., Māshā'allāh, & Bayerische Staatsbibliothek. (1971). *The astrological history of Māshā'allāh*. Cambridge, Mass: Harvard University Press. Retrieved from <https://doi.org/10.4159/harvard.9780674863965>
 - Kennedy, E. S. (1973). *A commentary upon Bīrūnī's Kitāb tahdīd al-amākin: An 11th century treatise on mathematical geography*. Beirut: American University of Beirut. [CA:AUB 526.6:B619kaa:c.1](#)
 - Kennedy, E. S., Ghānim, I., & Ibn, -S. A. I. (1976). *The life & work of Ibn al-Shāṭir: An Arab astronomer of the fourteenth century*. Halab: University of Aleppo, Institute for the History of Arabic Science Institute. [CA 520:L722L:c.1](#)
 - Kennedy, E.S. (1983). *Studies in the Islamic Exact Sciences*. Beirut: American University of Beirut. [CA:AUB 509.176:K35s](#)
 - Kennedy, E. S., & Kennedy, M. H. (1987). *Geographical coordinates of localities from Islamic sources*. Frankfurt am Main: Institut für Geschichte der Arabisch-Islamischen Wissenschaften an der Johann Wolfgang Goethe-Universität. [CA 525:K35g:c.1](#)
 - Kennedy, E.S.; Sezgin, F. (1992). *Islamic geography. Volume 27, A commentary upon Biruni's Kitab tahdid al-amakin: an 11th century treatise on mathematical geography*. Frankfurt am Main: Institute for the History of Arabic-Islamic Science, Johann Wolfgang Goethe University. [CA:AUB 915.60415:P976p:v.2](#)
 - Kennedy, E. S. (1998). *Astronomy and astrology in the medieval Islamic world*. Aldershot: Ashgate. [CA 520.917:K35a:c.1](#)
 - Kennedy, E.S. (1998). *Islamic Mathematics and Astronomy volume 84, On the Contents and Significance of the Khāqānī Zīj by Jamshīd Ghiyāth al-Dīn al-Kāshī*. Frankfurt am Main: Institute for the History of Arabic-Islamic Science at the Johann Wolfgang Goethe University. [J 510.917:P976p:v.84](#)
 - Kennedy, E.S., Kunitzsch, & Lorch, R.P. (Eds.). (1999). *The melon-shaped astrolabe in Arabic astronomy*. Stuttgart: Franz Steiner. [CA 522.4:M528k:c.1](#)
 - Mackay, D. & Kennedy, E.S. (1954). *Report on the excavation of a cave near the mouth of the Dog River north of Beirut*. Beirut: American University of Beirut. [CA 571:M15r:c.1](#)

Books edited and/or translated by Edward S. Kennedy

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