

COLLECTIONS OF CORRESPONDENCE AND MANUSCRIPT DOCUMENTS

NAME OF COLLECTION: Hill, George William Papers (1886-1901)

SOURCE: Gift George William Hill

SUBJECT: Manuscripts of articles relating to celestial mechanics and astronomy

DATES COVERED: ca 1900 NUMBER OF ITEMS: 35

STATUS: (check appropriate description)
 Cataloged: Listed: Arranged: Not organized:

CONDITION: (give number of vols., boxes, or shelves)
 Bound: _____ Boxed: 2 boxes Stored: _____ Vault 13

LOCATION: (Library) Special Collections CALL-NUMBER MS 011 / Hill, George

RESTRICTIONS ON USE _____

DESCRIPTION:
 Manuscripts of articles and essays, published and unpublished, ^{by} George William Hill, American astronomer and lecturer at Columbia University from 1898 to 1901. The manuscripts relate to topics in celestial mechanics and astronomy. Also included is a manuscript of his Canadian trip: SEE X508.3/H552/Q Account of a trip from Lake Superior to James Bay, 1880.
 JAN 1955; _____ (Vault) 13

Box 1: Manuscripts of articles, published and unpublished, 14 packets
 (For a list see following sheet)

Box 2: Lecture notes

- Packet 1. Attraction of the Homogeneous Spherical Segment, 13 p. (Right One)
Attraction of the Homogeneous infinitely thin Memiscus, 7 p.
The Attraction of a Homogeneous Spherical Segment (second paper), 5p.
Supplement to the Manuscript (Right One), 5p.
On the Attraction of an infinitely thin and homogeneous Memiscus on
an Exterior Point, 5p.
For the case when..., 6p.
Let it be required..., 6p.
- Packet 2. General Solution of the Problem so to represent the parts of a given
Surface upon another given surface that the representation shall be
similar in the smallest parts to those represented, 20 p.
- Packet 3. With the ordinary notation the expression for the living force is..., 6p.
Motion of two Planets in a Plane, 7 p.
On the Coplanar Motion of two Planets, 7p.
- Packet 4. Approximate Determination of the Perturbations of the Planets, 4p.
- Packet 5. It is often convenient to pass from one set of canonical variables
to another, 3p.
- Packet 6. Claudius Ptolemy's Syntaxis, Book IX, Chap. I., 40p.
Ptolemy's Theory of the Sun (and the Moon; various short papers, 14p.
Ptolemy's Theories of the Geocentric Latitudes of the Plantets, 11p.
Ptolemy's Treatment of the Planetary Theories, 28p.
Claudius Ptolemy's Syntaxis, Book III, Chap. I., 30p.
Book IV, Chap. I., 30p.
- Packet 7. We can find the value of pi..., 18p.
- Packet 8. The Secular Perturbations of the Four Outer Planets, 12p.
- Packet 9. Scheme for the Elaboration of a Numerical Lunar Theory, 15p.
- Packet 10. Determination of the Lunar Inequalities which arise from the Figure
of the Earth together with those which having nearly the same periods
as the former result from the Action direct and indirect of the Planets,
132p.
- Packet 11. Application of the Tchebicheff Principle to Map Construction, 15p.
- Packet 12. Determination of the Inequalities of the Moon's Motion which are
produced by the Figure of the Earth. A Supplement to Delaunay's
Lunar Theory, 148p.
- Packet 13. Application of Tchebicheff's Principle in the Projection of Maps, 11p.
- Packet 14. Motion of a System of Material Points under the Action of Gravitation, 46p.
Another copy, incomplete, 19p.