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Guide to the A.B. Starr Mechanical Engineering Lab Reports

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Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	A.B. Starr Mechanical Engineering Lab Reports
Date:	1905-1906
Identifier:	NMAH.AC.1034
Source:	National Museum of American History (U.S.). Division of Work and Industry
Creator:	Gordon, Robert B. Starr, A.B., 1882-1962
Extent:	0.3 Cubic feet (1 box)
Language:	English .

Administrative Information

Acquisition Information

Collection donated by Robert B. Gordon, 1991.

Provenance

Donated to the National Museum of American History, Division of Engineering and Industry (now Division of Work and Industry), by Robert B. Gordon, in 1991. Transferred to the Archives Center in 2007.

Processing Information

Collection is unprocessed.

Preferred Citation

A.B. Starr Mechanical Engineering Lab Reports, 1905-1906. Archives Center, National Museum of American History.

Restrictions on Access

Collection is open for research but is stored off-site and special arrangements must be made to work with it. Contact the Archives Center for information at archivescenter@si.edu or 202-633-3270.

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Biographical Note

Albert B. Starr graduated from Sibley College in 1907. For a time he was the acting Assistant Postmaster in East Hampton, Connecticut.

Scope and Contents

Three volumes of laboratory notes compiled by Starr while a student at Sibley College, Cornell University. The tests written about in the notebooks related to engines, steam, tensile strength of cast iron, lubricants, and other subjects. The notebooks contain notes, charts and graphs, and cyanotypes.

Arrangement

1 series.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Boilers
- Lubrication and lubricants
- Mechanical engineers
- Steam engineering
- Steam-engines

Types of Materials:

- Cyanotypes
- Graphs
- Laboratory notebooks

Names:

- Cornell University
- National Museum of American History (U.S.). Division of Work and Industry
- Sibley College of Mechanical Engineering and Mechanic Arts.

Container Listing

Box 1, Folder 1	Mechanical Engineering Lab Reports, Volume 1, 1905 1 Volume Notes: Volume includes tests for: tension cast iron; wrought iron; traverse test of cast iron and wrought iron; torsion test of machine steel; various tests of machine oil; friction test of machine oil; determination of moisture and quality of steam; calibration of steam gauges; handling of steam indicators; planimeters; and calculating instruments.
Box 1, Folder 2	Mechanical Engineering Lab reports, Volume 2, 1906 Notes: Volume includes tests for: wood (red oak); thermometer calibration; cement; coal analysis (anthracite coal); calibration of morin dynamometer; calibration of Webber dynamometer; hydraulic ram; Weir and nozzles; centrifugal pump; steam pump reciprocating; heater; and simple steam engine.
Box 1, Folder 3	Mechanical engineering lab reports, Volume 1, 1906-1907 Notes: Volume includes tests for: Ericsson hot air engine; Rider hot air engine; Hornsby Akroyd oil engine; Westinghouse gas engine; Ohio gasoline engine; direct-connected DeLaval steam turbine; Hirs analysis of compound Corliss; valve setting of a plain D slide valve on simple engine; and Penberthy insector.