
Hans Reissner Papers

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Descriptive Summary

Creator: Reissner, Hans

Title: Hans Reissner Papers,

Date (inclusive): 1881-1984

Extent: 4.00 linear feet(6 archives boxes and 5 oversize folders.)

Abstract: Papers of Hans Reissner (1874-1967), aeronautical engineer, physicist, professor, and researcher. Reissner designed the first successful aircraft with all-metal wing and tail surfaces and the first controllable-pitch propeller. He began his career in Germany, working with Ferdinand Zeppelin, Hugo Junkers and also teaching. He immigrated to the United States in 1938 and taught at the Illinois Institute of Technology (1938-1944) and the Polytechnic Institute of Brooklyn (1944-1954). Materials include correspondence, much of it relating to German aviation development in the early twentieth century; published and unpublished articles documenting Reissner's work in Germany and the United States; propeller patents (1919-1946); an aerial bombing chart (1915); teaching materials dated after 1937; photographs of early German aircraft; and, photographs of Hans Reissner. The Hans Reissner Papers are arranged in eight series: 1) BIOGRAPHICAL MATERIAL, 2) CORRESPONDENCE, 3) WRITINGS BY HANS REISSNER, 4) WRITINGS OF OTHERS, 5) LECTURES AND TEACHING MATERIAL, 6) PATENTS, 7) SUBJECT FILES, and 8) ORIGINALS OF PRESERVATION PHOTOCOPIES.

Repository: University of California, San Diego. Geisel Library. Mandeville Special Collections Library.

La Jolla, California 92093-0175

Collection number: MSS 0030

Language of Material: Collection materials in English

Access

Collection is open for research.

Acquisition Information

Not Available

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Publication Rights

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Biography

Hans Jacob Reissner was born on January 18, 1874, in Berlin, Germany. He earned a degree in civil engineering from Berlin's Technische Hochschule in 1897, then spent a year in the United States working as a structural draftsman. Reissner returned to Germany to study physics with Max Planck at Berlin University. In 1900 he changed direction and attended the Technische Hochschule, where he studied under Heinrich Mueller-Breslau and completed one of the first engineering doctorates in 1902. His dissertation was on vibrations of framed structures. Reissner joined the faculty at Berlin's Technische Hochschule, but he also worked on outside projects, including structural analysis for Count Zeppelin. In 1904, he was awarded a fellowship to study the use of iron in construction in the United States.

In 1906, Reissner returned to Germany and was appointed professor of mechanics at the Technische Hochschule in Aachen. Up until this time his research had dealt with topics at the intersections of mechanics and physics, but his attention now focused upon the new field of aviation. By 1908 he was familiar enough with the basic areas of aircraft stability, control and propulsion to deliver a seminal paper published as "Wissenschaftliche Fragen aus der Flugtechnik," the first of many articles on these topics. Hugo Junkers, also on the faculty at Aachen, and Reissner designed and constructed the first successful all-metal and tail-first airplane, the "Ente."

After seven years in Aachen Reissner was invited to return to Berlin's Technische Hochschule in 1913 as professor of mathematics in the civil engineering department. During World War I he was responsible for the structural analysis of the Staaken four-engine bomber and designed the first controllable-pitch propellers for this aircraft. He was awarded the Iron Cross for civilians for his work.

In 1938, Reissner immigrated to the United States, where he taught first at the Illinois Institute of Technology (1938-1944) and then at the Polytechnic Institute of Brooklyn (1944-1954). For his seventy-fifth birthday in 1949 he was honored with the presentation of a festschrift, the REISSNER ANNIVERSARY VOLUME, at a dinner in New York.

Reissner retired from professional life in 1954 and died in 1967.

Scope and Content of Collection

The Hans Reissner Papers document the career of a professor, researcher and aeronautical engineer during the development of early-twentieth century German aviation. The materials include correspondence, reprints, manuscripts, personal documents, patents, mechanical drawings, and photographs. Most of the material dated prior to 1938 is in German.

The papers are arranged in eight series: 1) BIOGRAPHICAL MATERIAL, 2) CORRESPONDENCE, 3) WRITINGS BY HANS REISSNER, 4) WRITINGS OF OTHERS, 5) LECTURES AND TEACHING MATERIAL, 6) PATENTS, 7) SUBJECT FILES, and 8) ORIGINALS OF PRESERVATION PHOTOCOPIES.

SERIES 1: BIOGRAPHICAL MATERIAL

The BIOGRAPHICAL MATERIAL series contains photographs, awards, memorabilia, and articles summarizing Reissner's career that were published on the occasion of his seventy-fifth birthday and following his death in 1967. Eric Reissner's article entitled "Hans Reissner, Engineer, Physicist and Engineering Scientist" provides a narrative of his father's life and intellectual achievements. For additional biographical materials see also Series 2B: General Historical Files.

The "personal documents" folder is arranged chronologically and includes academic, health, residence, travel, and work records for Reissner, as well as birth and death certificates for family members. There are also two documents from the German war department, dated December 19, 1913, and July 3, 1914.

SERIES 2: CORRESPONDENCE

The CORRESPONDENCE series is arranged in two subseries: A) Hans Reissner Correspondence, A-Z and B) Eric Reissner, Reference Correspondence.

A) The first subseries is arranged alphabetically by correspondent and contains correspondence with colleagues and those involved with the patenting and construction of aircraft. There is a long exchange with Moritz Straus (1929-1946) and three letters from Erwin Schrodinger written in 1926. The correspondence with Ludwig Durr, Ernst Uhland and Ferdinand Zeppelin dates from the period when he worked as a structural analyst for Zeppelin. Photographs and mechanical drawings of early biplane construction are located in the "Deutsche Versuchsanstalt fur Luftfahrt" file.

B) The second subseries consists of Eric Reissner's reference correspondence files on topics associated with his father's work and role in aviation history. The materials are arranged alphabetically by subject. The "General Historical" files document the contributions of Reissner, Hugo Junkers and Ludwig Prandtl to aircraft development and include photographs of the "Ente," the first successful all-metal and tail-first airplane.

SERIES 3: WRITINGS BY HANS REISSNER

The WRITINGS BY HANS REISSNER series is arranged in three subseries: A) Published, B) Unpublished and C) Notebooks.

A) The Published subseries largely contains Reissner's journal articles and technical writings arranged according to a numbered publication list that begins the subseries. Publications not on the list are interfiled by date. The subseries contains 54 of the 97 listed works, of which 42 are in German and 12 are in English. Although some article files include drafts, computations and notes, most of the articles are in printed form.

B) The Unpublished subseries contains manuscript papers and analytical reports arranged alphabetically. Included is Reissner's highly detailed structural analysis of Count Zeppelin's airship entitled "Erlauterungsbericht zu dem Entwurf eines Luftschiffes - System Sr. Excellenz, des Grafen von Zeppelin."

C) Notebooks contain reports, calculations and design specifications and are arranged alphabetically by title.

SERIES 4: WRITINGS OF OTHERS

The WRITINGS OF OTHERS series includes articles by Ferdinand Zeppelin and others about his airship, two dissertations for which Reissner served as adviser, a collection of reviews of Reissner's publications, and reviews of the REISSNER ANNIVERSARY VOLUME, a festschrift presented to him on his seventy-fifth birthday.

SERIES 5: LECTURES AND TEACHING MATERIAL

This series contains material in English for lectures Reissner gave at the Massachusetts Institute of Technology and the 1943 lecture entitled "Aviation Technology of Two Wars," in which Reissner reviews technical aspects of the development of aircraft and his own contributions to aircraft structure and propeller design. The materials are arranged alphabetically.

SERIES 6: PATENTS

The PATENTS series, arranged by date, comprises Reissner's German, British and American patents for controllable pitch propellers. The last folder in this series contains patent documentation and notes.

SERIES 7: SUBJECT FILES

This series contains mechanical drawings for airplane wings, propellers and bridges. There are brochures and accounting information for propeller manufacturers, a 1915 ballistics chart for aerial bombing, Reissner's scrapbook of propeller photographs, and material relating to curriculum reform for Germany's Technische Hochschule system in 1919.

SERIES 8: ORIGINALS OF PRESERVATION PHOTOCOPIES

This series contains the originals of brittle or high-acid content documents that have been photocopied.

Indexing Terms

The following terms have been used to index the description of this collection in the library's online public access catalog.

Subjects

Reissner, Hans, -- Archives
Propellers, Aerial -- Design and Construction
Aeronautics -- Germany -- History -- 20th century
Aeronautics -- Technological innovations
Mechanical engineering
Engineering -- Germany -- History -- 20th century
Airplanes -- Design and Construction

Contributors

Zeppelin, Ferdinand, -- Graf von, 1838-1917, -- correspondent
Straus, Moritz, -- correspondent

BIOGRAPHICAL MATERIAL

box 1, folder 1	Articles about Hans Reissner 1964 - 1977
box 1, folder 2	Awards, certificates and diplomas
box 1, folder 3, oversize MC03503	Awards, certificates and diplomas - Oversize
box 1, folder 4	Personal documents 1881 - 1938
box 1, folder 5	Photographs - Hans Reissner
box 1, folder 6, oversize FB21002	Seventy-fifth Anniversary Dinner [Scrapbook], January 18, 1949, in Honor of Dr. Hans Reissner... 1949

Note

Includes guest list, correspondence and press clippings.

CORRESPONDENCE

Hans Reissner Correspondence, A-Z

box 1, folder 7	A - Miscellaneous
box 1, folder 8	Aeroquip Corporation 1941
box 1, folder 9	Albatroswerke G.m.b.H. 1914
box 1, folder 10	Argus Motoren Gesellschaft m.b.H. 1935 - 1941
box 1, folder 11	Aviation Manufacturing Corporation 1936

Note

Includes three British patents on propellers.

box 1, folder 12	B - Miscellaneous
box 1, folder 13	Bruckmann, Wilhelm 1909
box 1, folder 14	Curtiss-Wright Corporation. Curtiss Propeller Division 1942
box 1, folder 15	D - Miscellaneous
box 1, folder 16	Deutsche Versuchsanstalt fur Luftfahrt, e.v. 1914

Note

Includes "Bericht uber den Prüfungsauftrag P.49 - Erprobung der Tragwirkung des Schraubenwindes auf Flugel und Flossen eines Albatros-Doppeldeckers," with mechanical drawings and photographs of biplane construction.

box 1, folder 17
 box 1, folder 18
 box 1, folder 19
 box 1, folder 20

Durr, Ludwig 1902
F - Miscellaneous
G - Miscellaneous
General Motors Corporation. Aeroproducts Division 1941

Note

See also Series 2A: Taylor, E.S.

box 1, folder 21
 box 1, folder 22
 box 1, folder 23
 box 1, folder 24
 box 1, folder 25
 box 1, folder 26
 box 1, folder 27
 box 1, folder 28
 box 1, folder 29
 box 1, folder 30
 box 1, folder 31
 box 1, folder 32
 box 1, folder 33
 box 1, folder 34
 box 1, folder 35
 box 1, folder 36
 box 1, folder 37

H - Miscellaneous
Hirsch, Peter 1939 - 1941
Hunsacker, J.C. 1941
K - Miscellaneous
Knight, William 1921
Krohn, Reinhold 1922
L - Miscellaneous
M - Miscellaneous
Minckin-Metallwerke 1902
N - Miscellaneous
O - Miscellaneous
P - Miscellaneous
Prandtl, Ludwig 1911 - 1950
R - Miscellaneous
Reiser, Leo 1941
Reissner, Eric, (son) 1951 - 1952
Reissner, Hans

Note

Letters to unidentified correspondents.

box 1, folder 38
 box 1, folder 39
 box 1, folder 40
 box 1, folder 41
 box 2, folder 1
 box 2, folder 2
 box 2, folder 3

Reissner, Josephine, (wife) 1914
Reissner, Max, (father) 1909
S - Miscellaneous
Schrodinger, Erwin 1926
Straus, Moritz 1929 - 1946
T - Miscellaneous
Taylor, E.S. 1941

Note

See also Series 2A: General Motors Corporation. Aeroproducts Division.

box 2, folder 4
 box 2, folder 5
 box 2, folder 6
 box 2, folder 7
 box 2, folder 8
 box 2, folder 9

U - Miscellaneous
Uhland, Ernst 1902 - 1903
W - Miscellaneous
War Department. Air Corps. Materiel Division 1941
Zeppelin, Ferdinand 1902 - 1903
Unidentified correspondents

Note

Letters to Reissner.

Eric Reissner, Reference Correspondence

box 2, folder 10
 box 2, folder 11
 box 2, folder 12

Aachen -- Aeronautics 1966 - 1982
Correction of Errors Concerning H. Reissner's Work in Aachen 1993
General Historical - Part 1

Note

Includes issue of FLUGSPORT (January 1928) and a festschrift for Hugo Junkers entitled HUGO JUNKERS: PIONIER DER INDUSTRIELLEN FORSCHUNG.

box 2, folder 13

General Historical - Part 2**Note**

Includes JAHRBUCH 1954: DER WISSENSCHAFTLICHEN GESELLSCHAFT FÜR LUFTFAHRT E.V.

box 2, folder 14

General Historical - Photographs of early aircraft

box 2, folder 15

Gesellschaft für angewandte Mathematik und Mechanik (GAMM)

box 2, folder 16

Propeller Theory and Design (Variable Pitch)

box 2, folder 17

Reissner-Nordstrom 1981 - 1982

box 2, folder 18

Schrodinger 1984

box 2, folder 19

Schulz, Werner 1968 - 1981**Note**

Includes biographical sketch and list of Hans Reissner's publications published in DER STAHLBAU, 1959.

WRITINGS BY HANS REISSNER**Published**

box 2, folder 20

List of Hans Reissner's publications 1967**Note**

Published in JAHRBUCH 1967 DER WGLR.

box 2, folder 21

Unnumbered. "Eine neue Fahrbahnordnung für eiserne Strafsenbrücken" 1897**Note**

With M. Gruning.

box 3, folder 1

1. "Über Fahrbahnüberhöhung" 1899

box 3, folder 2

3. "Schwingungsaufgaben aus der Theorie des Fachwerks" 1902**Note**

Dissertation.

box 3, folder 3

6. "Schwingungsaufgaben aus der Theorie des Fachwerks" 1903

box 3, folder 4

10. "Eine Bemerkung über Gravitations- und Elektronische Masse" 1905

box 3, folder 5

12. "Amerikanische Eisenbauwerkstätten" 1906

box 3, folder 6

13. "Über Fachwerke mit Zyklischer Symmetrie" 1907**Note**

Includes correspondence.

box 3, folder 7

14. "Über die Spannungsverteilung in Zylindrischen Behälterwänden" 1908

box 3, folder 8

15. "Wissenschaftliche Fragen aus der Flugtechnik" 1908

box 3, folder 9

16. "Über die Knicksicherheit ebener Bleche" 1907

box 3, folder 10

19. "Die Seitensteuerung der Flugmaschinen" 1910

box 3, folder 11

21, 23, 28. "Studien zur Berechnung und Planmassigen Prüfung der Luftschrauben" 1910 - 1912**Note**

Bound together.

box 3, folder 12

22. "Theorie des Erddrucks" 1910

box 3, folder 13

Unnumbered. "Das Propeller-Problem" 1911

box 3, folder 14

25. "Spannungen in Kugelschalen (Kuppeln)" 1911

box 3, folder 15

29. "Einige Bemerkungen zur Seitenstabilität der Drachenflieger" 1912

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- | | |
|------------------|---|
| box 3, folder 16 | 38. "Über die Eigengravitation des Elektrischen Feldes nach der Einsteinschen Theorie" 1916 |
| box 3, folder 17 | 39. "Festigkeitsberechnung der Flugzeugholme" 1916
Note
With E. Schwerin. |
| box 3, folder 18 | 40. "Über die Bieungsbeanspruchung von Schraubenpropellern und die Entlastende Wirkung der Zentrifugalkraft" 1917 - 1918 |
| box 3, folder 19 | 41. "Die Biegungslinie des Vollkommen Elastischen Stabes Infolge Langskraft und Querbelastrung in der Nahe..." 1918 |
| box 3, folder 20 | 43. "Wirkungsweise und Anwendungsgebiet von Verstellbaren Luftschrauben" 1920 |
| box 3, folder 21 | 46. "Bemerkungen zur Abferderung der Motorwagen" 1921 |
| box 3, folder 22 | 47. "Stationärer Bewegungszustand Einer Schraubenformigen Wirbelfläche" 1922 |
| box 3, folder 23 | 48. "Über die Kraftschlussigkeit von Zahnradgetrieben, Insbesondere für Schiffspropeller" 1924 |
| box 3, folder 24 | 49. "Zum Erddruckproblem" 1924
Note
Includes galleys and uncut page proofs. |
| box 3, folder 25 | 51. "Energiekriterium der Knicksicherheit" 1925 |
| box 3, folder 26 | 53. "Beitrag zur Theorie des Elektrons" 1925 |
| box 3, folder 27 | 54. "Über eine Möglichkeit, die Wesentlichen Eigenschaften von Kern und Elektron..." 1925 |
| box 3, folder 28 | Unnumbered. Book review of DIE ELASTISCHEN PLATTEN by A. Nadai 1926 |
| box 3, folder 29 | Unnumbered. "Die Grundlagen der Elasticitätstheorie. A. Spannungen" 1926 |
| box 3, folder 30 | 58. "Augenstabproblem und Verwandte Aufgaben" 1928 |
| box 3, folder 31 | 60. "Über den Einfluss der Inneren Reibung auf die Stabilität Rotierender Wellen" 1929 |
| box 3, folder 32 | 62. "Allgemeine Statik (und Graphische Statik) der Systeme Starrer Körper" 1929 |
| box 3, folder 33 | Unnumbered. Book review of DIE KRAFTFELDER IN FESTEN ELASTISCHEN KÖRPERN UND IHRE PRAKTISSCHEN ANWENDUNGEN 1929
Note
By Th. Wyss. |
| box 3, folder 34 | 65. "Warum ich den 'Enten' Flugzeugtyp nicht Weiter Forderte" 1930 |
| box 3, folder 35 | 67. "Eigenspannungen und Eigenspannungsquellen" 1931 |
| box 3, folder 36 | Unnumbered. Review of DIE RELATIVITÄTSTHEORIE by Dr. Ludwig Hopf 1931 |
| box 3, folder 37 | 68. "Theorie der Biegungsschwingungen Frei Aufliegender Rechteckplatten Unter dem Einfluss Beweglicher..." 1931
Note
(Bemerkung zur Arbeit von H. Schmidt.) |
| box 3, folder 38 | 71. "Ringplatte und Augenstab" 1933
Note
With Fr. Strauch. |
| box 3, folder 39 | 72. "Formänderung, Spannung und Kleine Schwingungen von Stäben mit Anfänglicher Krümmung und Verwindung..." 1933
Note
Erste Mitteilung. |
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box 3, folder 40	73. "Formänderung und Spannungen Einer Dünnwandigen, an den Rändern Frei Aufliegenden, Beliebigen Belasteten..." 1933
	Note Eine Erweiterung der Navierschen Integrationsmethode.
box 3, folder 41 box 3, folder 42	74. "Spannungsverteilung in der Gurtplatte einer Rippendecke" 1934 75. "Ebene und Raumlische Stromung Zaher, Inkompressibler, Tragheitsfreier Flüssigkeiten Zwischen..." 1935
	Note Mitteilung 1.
box 3, folder 43	76. "Ebene und Raumlische Stromung Zaher, Inkompressibler, Tragheitsfreier Flüssigkeiten Zwischen..." 1936
	Note Mitteilung 2.
box 3, folder 44 box 3, folder 45	77. "Übergangsbogen für Eisenbahnen und Autorennbahnen" 1937 79. "On the Relation Between Thrust and Torque Distribution and the Dimensions and Arrangement of Propeller" 1937
	Note Includes typed draft.
box 3, folder 46	80. "Senkrechte und Schräge Durchtritt Einer in Einem Flüssigen Medium Erzeugten Ebenen Dilatations-..." 1938
box 3, folder 47 box 3, folder 48 box 3, folder 49 box 4, folder 1	81. "Elastic Instability of Tubular and Panel Shaped Cylindrical Shells" 1938 82. "Generalized Vortex Theory of the Screw Propeller and Its Application" 1940 83. "Wing of Minimum Total Resistance" 1940 84. "On Lubrication Flow with Periodic Distribution Between Prescribed Boundaries" 1941
box 4, folder 2 box 4, folder 3 box 4, folder 4 box 4, folder 5 box 4, folder 6	85. "Theory of Propellers" 1942 86. "Graphical Statics" 1942 87. "Aerodynamic Center, Control and Stability of Airplanes" 1943 88. "Oscillations of Suspension Bridges" 1943 89. "Aeronautical Engineering Courses for Undergraduate and Graduate Curricula" 1943
box 4, folder 7 box 4, folder 8 box 4, folder 9	90. "Systematic Analysis of Thermal Turbojet Propulsion" 1947 92. "Blade Systems of Circular Arrangement in Steady, Compressible Flow" 1948 Unnumbered. "Vibrations of a Helicopter Rotor-Fuselage System Induced by the Main Rotor Blades in Flight" 1954

Unpublished

box 4, folder 10 box 4, folder 11	Belastung des Turmes Bericht Reissner: über II Internat. Kongress für Tech. Mechanik -- Zürich, 12-17 September 1926
box 4, folder 12 box 4, folder 13, oversize MC03505	Clairautsches Problem Erläuterungsbericht zu dem Entwurf eines Luftschiffes - System Sr. Excellenz, des Grafen von Zeppelin 1903
	Note Analytical report, computations and mechanical drawings for an airship.
box 4, folder 14	Formänderung, Spannung und kleine Schwingungen von rotierenden Stäben, insbesondere Luftschraubenflügen mit...
	Note Abhandlung 2.

<p>box 4, folder 15 box 4, folder 16 box 4, folder 17 box 4, folder 18 box 4, folder 19, oversize MC03506</p>	<p>Hauptpunkte des Referats u. der Discussion des Technischen Pubs Lubrication Flow of Periodic Distribution Between Prescribed Boundaries Praktische Schraubenberechnung 1917 Propeller Design 1941 Propellertheorie 1933 - 1935</p> <p>Note Includes graphs.</p>
<p>box 4, folder 20 box 4, folder 21</p>	<p>Satz: Masse und Gewicht des Ausschusses fur Einheiten und Formelgrossen 1931 SPEE Report 1939</p> <p>Note Engineering Education and Teaching on Vibration (and Oscillation) Phenomena in Undergraduate Courses.</p>
<p>box 4, folder 22 box 4, folder 23 box 4, folder 24 box 4, folder 25 box 4, folder 26 box 4, folder 27</p>	<p>Tech. Eindrucke vom [?] Kriegschaupl Theoretischen Untersuchungen von Schrauben Theory of Dynamic Balancing of Propellers 1943 Uber den Festkeitsnachweis des Albatros-[?]... 1914 Viscous Flow of Periodic Distribution in Narrow Channels Unidentified titles (2)</p>

Notebooks

<p>box 4, folder 28 box 5, folder 1 box 5, folder 2 box 5, folder 3</p>	<p>Berichts 1917 Protokollbuch 1 1907 Protokollbuch 1a (Reinschrift von Prot.buch.1) 1907 Untersuchung der Stabilitat von Aeroplanen. Heft 2</p>
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WRITINGS OF OTHERS

<p>box 5, folder 4 box 5, folder 5 box 5, folder 6</p>	<p>Bandholz, J. H. "Amerikanische Eisenbauwerkstatten" 1907 Bartsch von Sigsfeld. "Anlagen zur Eingabe des Grafen von Zeppelin" Gehlen, K. "Querstabilitat und Seitensteuerung von Flugmaschinen" 1913</p> <p>Note Referent: Professor Dr. Ing. H. Reissner.</p>
<p>box 5, folder 7</p>	<p>Helmbold, H.B. "Die Grenze des Luftschraubendurchmessers"</p> <p>Note Includes mechanical drawings.</p>
<p>box 5, folder 8</p>	<p>Kober, T. "Lenkbares Luftschiff nach den Ungaben Seiner Excellenz General Graf von Zeppelin" 1894</p> <p>Note Includes mechanical drawing and notes.</p>
<p>box 5, folder 9 box 5, folder 10 box 5, folder 11 box 5, folder 12</p>	<p>Kubler, Hugo. "Das Zeppelin'sche Luftfahrzeug" 1901 REISSNER ANNIVERSARY VOLUME, 1949 -- Reviews Reviews of Hans Reissner's publications by various authors Schwerin, E. "Uber Spannungen in Symmetrisch und Unsymmetrisch Belasteten Kugelschalen (Kuppeln)..." 1918</p> <p>Note Referent: Professor Dr.-Ing. Reissner.</p>

box 5, folder 13	<p>Thalau, K. "Bericht der Deutschen Versuchsanstalt fur Luftfahrt E.V., Berlin-Adlershof " 1925</p> <p>Note</p> <p>Includes Bericht by C. Jansen.</p>
box 5, folder 14 box 5, folder 15	<p>Zeppelin, Ferdinand. "Notruf zur Rettung der Flugschiffahrt" 1903</p> <p>Zeppelin, Ferdinand. "Schriftstucke und Bemerkungen zur Klarlegung des Wahren Wertes Meiner Flugschiffe" 1902</p> <p>LECTURES AND TEACHING MATERIAL</p>
box 5, folder 16	<p>Aerodynamic Problems in Airscrew Design -- Lecture Given at M.I.T. 1937</p> <p>Note</p> <p>October 1937.</p>
box 5, folder 17 box 5, folder 18 box 5, folder 19 box 6, folder 1 box 6, folder 2	<p>Aeronautical Aerodynamics</p> <p>Aviation Technology of Two Wars 1943</p> <p>Dynamics 0691. Fall 1951-52 - Chapter 1. Kinematics (Geometry of Motion)</p> <p>Notes on Cartesian Tensors</p> <p>Theory of Elasticity - Polytechnic Institute of Brooklyn, Graduate Division -- Fall Term 1948 - 1949</p> <p>Note</p> <p>Given by H.J. Reissner and V.L. Salerno.</p>
	<p>PATENTS</p>
box 6, folder 3 box 6, folder 4	<p>1919, January 11: "Stellspindelantrieb fur Verstellbare Propeller"</p> <p>1933, August 13: "Verstellpropeller mit Ableitung der Verstellbewegung von der Propellerwelle aus Gegenuber"</p>
box 6, folder 5	<p>1938(?), December 31: "Fliehkraftregler, Insbesondere fur Verstellbare Luftschrauben"</p>
box 6, folder 6 box 6, folder 7 box 6, folder 8 box 6, folder 9 box 6, folder 10 box 6, folder 11 box 6, folder 12 box 6, folder 13 box 6, folder 14 box 6, folder 15 box 6, folder 16	<p>1941, August 5: "Regulatable Propeller Having Adjustable Blades"</p> <p>1943, August 10: "Controls for Variable Pitch Propellers"</p> <p>1943, December 7: "Screw Propeller, Particularly for Aircraft"</p> <p>1944, March 14: "Aircraft Propeller Construction"</p> <p>1944, May 8: "Propeller Construction for Aircraft or the Like"</p> <p>1944, December 12: "Propeller Construction for Aircraft or the Like"</p> <p>1944, December 19: "Screw Propellers, Particularly for Aircraft"</p> <p>1945, January 2: "Screw Propellers, Particularly for Aircraft"</p> <p>1945, February 24: "Propulsion Device, Particularly for Aircraft"</p> <p>1946, July 9: "Propeller Construction for Aircraft or the Like"</p> <p>Patent documentation and notes</p>
	<p>SUBJECT FILES</p>
box 6, folder 17, oversize MC03504 box 6, folder 18, oversize MC03502 box 6, folder 19, oversize MC03501 box 6, folder 20 box 6, folder 21 box 6, folder 22 box 6, folder 23	<p>Aerial Bombing Ballistics Charts - L. Lichtenstein and Hans Reissner 1915</p> <p>Aircraft - Mechanical drawings</p> <p>Bridges - Mechanical drawings</p> <p>Propeller manufacture - Helix Propeller-Gesellschaft m.b.H. 1919 - 1920</p> <p>Propeller manufacture - Miscellaneous brochures</p> <p>Propellers - Scrapbook of photographs</p> <p>Technische Hochschule</p>
	<p>ORIGINALS OF PRESERVATION PHOTOCOPIES</p>
box 6, folder 24	<p>Originals of Preservation Photocopies</p>
