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OF

A E R O N A U T I C S

Part 23 - Airships

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FOREWORD

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ABBREVIATIONS

- A.R.C. R. & M. - Great Britain. Aeronautical research committee. Reports and Memoranda.
- A.S.M.E. - American society of mechanical engineers, New York.
- Atti Assoc. ital. aerotecn. - Atti dell'Associazione italiana di aerotecnica. Roma.
- C.A.H.I. - Central aero-hydrodynamical institute, Moscow.
- C.I.N.A. - Commission internationale de navigation aérienne, Genève.
- C. R. Acad. sci. - Comptes rendus hebdomadaires des séances de l'Académie des sciences, Paris.
- D.V.L. - Deutsche versuchsanstalt für luftfahrt, Berlin.
- F.A.I. - Fédération aéronautique internationale, Paris.
- H.M. Stat. off. - His Majesty's Stationery office, London.
- N.A.A. - National aeronautic association, Washington.
- N.A.C.A. - National advisory committee for aeronautics, Washington.
- N.P.L. - National physical laboratory, Teddington, England.
- Pub. scient. tech. Min. de l'air. - Publications scientifiques et techniques du Ministère de l'air. Service des recherches de l'aéronautique, Paris.
- R.A.F. - Royal air force (Great Britain)
- R.A.S. - Royal aeronautical society (Great Britain)
- Rend. Istituto sper. aer. - Rendiconto dell'Istituto, sperimentale aeronautico, Roma.
- S.A.E. - Society of automotive engineers, New York.
- U.S. Govt. print. off. - U.S. Government printing office, Washington.
- V.D.I. - Verein deutscher ingenieure, Berlin.
- W.G.L. - Wissenschaftliche gesellschaft für luftfahrt, Berlin.
- Z.A.M.M. - Zeitschrift für angewandte mathematik und mechanik, Berlin.
- Z.F.M. - Zeitschrift für flugtechnik und motorluftschiffahrt, München.

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Section I

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What about the airship; the challenge to the United States, by Charles E. Rosendahl. New York, Scribner, 1938. 437 p. illus., tables.

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Dirigible airships. Hearings before a subcommittee of the Committee on interstate and foreign commerce, House of representatives, Seventy-fifth congress, first session, on H. R. 2252, a bill authorizing the loan of \$12,000,000 for constructing two eight-million-cubic-foot american-designed dirigible airships, a large american airship plant, and an Atlantic operating terminal, and to establish twice-a-week american trans-Atlantic commercial airship service. June 8, 9, 15 and 22, 1937. Washington, U. S. Govt. print. off., 1937. 160 p.

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Heroes of air, by C. C. Fraser. New York, Thomas Y. Crowell, 1937. 786 p. maps.

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Up ship adventures, by James Elliott Mooney. New York, T. Nelson and sons, 1937. 85 p.

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Aircraft of the British Empire, by L. Bridgman. London, S. Low, Marston and company, ltd., 1936. 178 p. diags., illus.

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"Zeppelin marsch!" Die deutschen luftschiffe von LZ 1 bis LZ 129; männer, werk und fahrten. Berlin, Verlag Ullsten, 1936. 63 p. illus.

Aerial navigation; the practicability of traveling pleasantly and safely from New York to California in three days, by Rufus Porter. San Francisco, L. R. Kennedy, 1935. 21 p. illus.

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Attack on origin of lift of elongated body, by R. P. Harrington. (In The Daniel Guggenheim airship institute publication no. 2. Akron, Ohio, 1935. p. 32-52. diags., illus.)

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- The General problem of the stressed-skin airship hull, by Ralph H. Upson. (In The Daniel Guggenheim airship institute publication no. 3. Akron, Ohio, 1935. p. 28-53. diags., tables)
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- Potential flow about elongated bodies of revolution, by Carl Kaplan. Washington, U.S. Govt. print. off., 1935. 20 p. diags., (N.A.C.A. Report no. 516)
- Pressure distribution on an airship during curved flight, by M. Long and A. Katz. (In The Daniel Guggenheim airship institute publication no. 3. Akron, Ohio, 1935. p. 130-33. diags., illus.)
- Some airship problems, by C. P. Burgess. (In The Daniel Guggenheim airship institute publication no. 3. Akron, Ohio, 1935. p. 54-63)
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Airships in peace and war, by James Alexander Sinclair. London, Rich and Cowan, Ltd., 1934. 308 p. illus., plates.

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Method of curved models and its application to the study of curvilinear flight of airships, by Gourjienko. Moscow, Scientific technical department of the Supreme council of national economy, 1934. 64 p. illus. (C.A.H.I. Transactions no. 182)

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Die Arktisfahrt des Luftschiffes "Graf Zeppelin" im Juli 1931, von Arthur Berson. Gotha, J. Perthes, 1933. 112 p. illus., maps, plates.

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Elementi del calcolo statico dei dirigibili, di Rodolfo Verduzio. Roma, Libreria di scienze e lettere, 1933. 138 p. diagrs., illus., plates.

Investigation of dirigible disasters. Hearings before a Joint committee to investigate dirigible disasters, Congress of the United States, Seventy-third congress, first session, pursuant to H. Con. Res. 15, a concurrent resolution creating a joint committee to investigate the causes of the wrecks of dirigibles. May 22 to June 6, 1933. Printed for the use of the Joint committee to investigate dirigible disasters. Washington, U. S. Govt. print. off., 1933. 944 p. tables.

L'Italia au Pôle nord; traduction de Pierre Grillet, par Umberto Nobile. Paris, Editions de la Madeleine, 1933. 347 p. illus., map, plates.

Luftschiff voraus! Arbeit und erleben am werke Zeppelins, von Alfred Colsman. Stuttgart, Deutsche verlagsanstalt, 1933. 248 p. illus., plates.

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The Radially braced airship ring, by L. Bairstow. London, H. M. Stat. off., 1933. 28 p. chart, diags., tables. (A.R.C. R. & M. no. 1551)

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Some aerodynamic problems of airships, by Theodor von Kármán. (In The Daniel Guggenheim airship institute publication no. 1. Akron, Ohio, 1933. p. 45-52. diags.)

Unser Graf Zeppelin und sein werk, von Georg Biedenkapp und H. Alt. Braunschweig, G. Westermann, 1933. 143 p. charts, diags., illus., plates, tables)

The Vertical wind tunnel of the Daniel Guggenheim airship institute, by T. H. Troller. (In The Daniel Guggenheim airship institute publication no. 1. Akron, Ohio, 1933. p. 11-22. diags., illus.)

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- Effect of turbulence on drag of airship models, by Hilda M. Lyon. London, H. M. Stat. off., 1932. 28 p. diags., tables. (A.R.C. R. & M. no. 1511)
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The Conquest of the Atlantic by air, by Charles Dixon. London, S. Low, Marston and company, ltd., 1931. 246 p. illus., plate, tables.

Count Zeppelin and the rigid airship, by Frederick A. Magoun and Eric Hodgins. (In their A History of aircraft. New York, McGraw-Hill book company, 1931, p. 157-86)

Cruisers of the air. The Story of lighter-than-air craft from the days of Roger Bacon to the making of the ZRS-4, by Clarence John Hylander. New York, Macmillan company, 1931. 308 p. illus.

Un Dirigeable militaire - "L'Adjutant-Vincenot," 1911-1919, par Étienne Joseph François Joux. Paris, E. Blondel la Rougery, 1931. 47 p. illus., maps.

Drag characteristics of several airships determined by deceleration test, by F. L. Thompson and H. V. Kirschbaum. Washington, U.S. Govt. print. off., 1931. 15 p. diags., illus. (N.A.C.A. Report no. 397)

30 Jahre Zeppelin - luftschiffahrt; bearbeitet im auftrage des Luftschiffbau Zeppelin, von Richard Louis. Eilenburg, Sachsen Druck: C. W. Offenhauer, 1931. 40 p. bibliog., illus., map., tables.

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- Elastic instability of members having sections common in aircraft construction, by George William Trayer and Herman William March. Washington, U.S. Govt. print. off., 1931. 42 p. diags., illus., tables. (N.A.C.A. Report no. 382)
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- Experiments relating to the flow in the boundary layer of an airship model, by L. F. G. Simmons. London, H. M. Stat. off., 1931. diags. (A.R.C. R. & M. no. 1268, p. 198-204)
- Ferdinand Graf von Zeppelin; die geschichte eines abenteuerlichen lebens, von Hans Rosenkranz. Berlin, Ullstein, 1931. 205 p. illus., tables.
- The Metalclad airship, by Carl B. Fritsche. London, Royal aeronautical society, 1931. 69 p. illus. (Aeronautical reprints no. 61)
- Mit dem luftschiff "Graf Zeppelin" nach Island vom 30. juni bis 3. juli 1931, von Carl Bruer. Goslar, Harz Greif-werke a. g., 1931. 10 p. map, plates.
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- Le R-101 sur Beauvais, routes des Indes, par Jean Ajalbert. Paris, Les Éditions des Portiques, 1931. 77 p. illus., maps.
- Report of the R. 101 inquiry. Presented by the Secretary of state for air to Parliament by command of His Majesty, March, 1931. London, H. M. Stat. off., 1931. 129 p. charts, diags., illus., plates, tables.
- Safety in the air, by Frederick W. Grantham. Los Angeles, Cal., The Wolfer printing company, 1931. 203 p. diags., illus., plates.
- Success - and disaster - the story of commercial airship development. (In Aviation yearbook. London, S. Low, Marston and company, ltd., 1931. p. 55-64. illus.)
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- Types of aircraft and materials, by Frank Wilbur Wead. Scranton, Pa., International textbook company, 1931. 60 p. illus.
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Section II

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- 6. Neueste Zeppelin. Wiener luftschiffer zeitung, Wien, July 1, 1910, v. 9, no. 13, p. 246.
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- 3. Destruction of the "Schwaben." Scientific american, New York, July 13, 1912, v. 107, no. 2, p. 47-48.
- 4. Zeppelin "Schwaben." L'Aérophile, Paris, May 15, 1912, v. 20, no. 10, p. 235. illus.
- 5. Flying laboratory. The observatory on board the "Schwaben." Scientific american supplement, New York, May 4, 1912, no. 1896, p. 275.
- 6. Rigid Zeppelin dirigible "Schwaben." Aeronautics, London, Apr. 1912, v. 5, no. 50, p. 87. illus.
- 7. Dirigeable "Schwaben" et le dirigeable L.Z. 11. La Revue aérienne, Paris, Feb. 25, 1912, v. 5, no. 81, p. 111-12.

AIRSHIPS - GERMANY - LZ-10 (SCHWABEN)

Zeppelin's "Schwaben," by Carl Dienstbach. Scientific american, New York, Nov. 25, 1911, v. 105, no. 22, p. 472, 484-85. diags., illus.

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Eine Fahrt des Zeppelinkreuzers "Schwaben" an den Niederrhein, von Carl Leiker. Deutsche zeitschrift für luftschiffahrt, Berlin, Nov. 15, 1911, v. 15, no. 23, p. 10-12. illus.

Die Fahrt der "Schwaben" von Düsseldorf über Bremen-Hamburg nach Berlin, am 19. oktober 1911. Deutsche zeitschrift für luftschiffahrt, Berlin, Nov. 1, 1911, v. 15, no. 22, p. 16, 18. illus.

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GERMANY - LZ-11 (VIKTORIA LUISE)

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A Journey in a Zeppelin, by Carl Dienstbach. Scientific american, New York, May 17, 1913, v. 108, no. 20, p. 449-50. illus.

No. 1. atterrissage du Zeppelin Viktoria-Luise. Schweizer aero club bulletin, Berne, Dec. 1912, v. 6, no. 12, p. 205. illus.

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AIRSHIPS - GERMANY - LZ-11 (VIKTORIA LUISE)

Das Neue passagierluftschiff "Viktoria-Luise" auf seiner ersten fahrt. Schweizer aero club bulletin, Berne, Apr. 1912, v. 6, no. 4, p. 98. illus.

Viktoria Luise - Zeppelin. Aero, London, Apr. 1912, v. 9, no. 106, p. 114. illus.

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GERMANY - LZ-13 (HANSA)

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Der Zeppelin luftkreuzer "Hansa." Osterreichische flugzeit-schrift, Wien, June 10, 1913, v. 7, no. 11, p. 271.

Germany's dirigible fleet. Flight, London, Dec. 14, 1912, v. 4, no. 50, p. 1161, 1163. illus.

Der Schnellste lenkballon. Wiener luftschiffer zeitung, Wien, Aug. 15, 1912, v. 11, no. 16, p. 294.

"Hansa" circling over the german fleet. Aircraft, New York, Feb. 1912, v. 3, no. 12, p. 340. illus.

GERMANY LZ-15

"Ersatz Z.I." gestrandet. Osterreichische flugzeitschrift, Wien, Apr. 10, 1913, v. 7, no. 7, p. 164-65.

Destruction of the german dirigible L.Z. 15, by Carl Dienstbach. Scientific american, New York, Apr. 5, 1913, v. 108, no. 14, p. 313.

Die Zerstörung des militärluftschiffes "Ersatz Z.I." Deutsche luftfahrer zeitschrift, Berlin, Apr. 2, 1913, v. 17, no. 7, p. 170.

Jeder ein "Zeppelin" zerstört. Wiener luftschiffer zeitung, Wien, Apr. 1, 1913, v. 12, no. 7, p. 115-16.

Zur katastrophe des militärluftschiffes, "L.Z. XV." Fachzeitung für automobilismus und flugtechnik, Berlin, Mar. 23-30, 1913, v. 7, no. 12-13, p. 21; 15-16.

AIRSHIPS - GERMANY - LZ-20

- Scharfschiessen von bord des militärluftkreuzers "Z.V."
Osterreichische flugzeitschrift, Wien, Apr. 10, 1914, v. 8
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- Von den Zeppelins. Wiener luftschiffer zeitung, Wien, Apr. 1,
1914, v. 13, no. 3, p. 48-49.
- Unglücksfall des "ZV." Zwei soldaten getötet. Wiener luft-
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p. 314.
- Eine Zwanzigstundenfahrt des "LZ-20." Deutsche luftfahrer
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GERMANY - LZ-120 (BODENSEE)

- Umschau. Luftfahrt, Berlin, Aug. 4, Sep. 1, 1921, v. 25,
no. 8-9, p. 146, 161.
- LZ-120. Aerial age, New York, Dec. 27, 1920, Feb. 21, 1921,
v. 12, no. 16, 24, p. 424, 616. (ceded to Italy at end
of war, renamed the "Ansonia")
- Die Fahrt der "Bodensee" Berlin-Stockholm-Berlin. Luftfahrt,
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- The New german "Delag" commercial airship "Bodensee." Flight,
London, Sep. 25, 1919, v. 11, no. 39, p. 1289.
- Die Erste fahrt des verkehrs-luftschiffs "Bodensee." Luft-
fahrt, Berlin, Sep. 1919, no. 17-18, p. 9. illus.

GERMANY - LZ-121 (NORDSTERN)

- "Nordstern" becomes "Méditerranée." Aerial age, New York,
Dec. 12, 1921, v. 14, no. 14, p. 328.
- Umschau. Luftfahrt, Berlin, Aug. 4, Sep. 1, 1921, v. 25,
no. 8-9, p. 146, 161.
- Das Verkehrsluftschiff "Nordstern" des luftschiffbau Zeppelin.
Luftfahrt, Berlin, Aug. 1921, v. 25, no. 8, p. 136-39.
illus.
- Le Dirigeable "Nordstern" en France. L'Aérophile, Paris,
July 1-15, 1921, v. 29, no. 13-14, p. 216.
- Le Zeppelin "Nordstern" livré à la France. L'Aéronautique,
Paris, July 1921, v. 3, no. 26, p. 297.
- The "Nordstern" goes to France. Aerial age, New York, Jan. 18,
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