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U.S. NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS

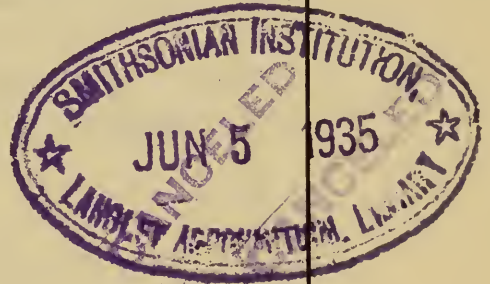
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BIBLIOGRAPHY

OF

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1931



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INTRODUCTION

This Bibliography of Aeronautics for 1931 covers the aeronautical literature published from January 1 to December 31, 1931. The first Bibliography of Aeronautics was published by the Smithsonian Institution as volume 55 of the Smithsonian Miscellaneous Collections and covered the material published prior to June 30, 1909. Supplementary volumes of the Bibliography of Aeronautics for the subsequent years have been published by the National Advisory Committee for Aeronautics. The last preceding volume was for the calendar year 1930.

As in the previous volumes, citations of the publications of all nations are included in the languages in which these publications originally appeared. The arrangement is in dictionary form with author and subject entry and one alphabetical arrangement. Detail in the matter of subject reference has been omitted on account of the cost of presentation, but an attempt has been made to give sufficient cross-reference for research in special lines.

JOSEPH S. AMES,

Chairman National Advisory Committee for Aeronautics.

NOVEMBER 23, 1934.

II



ABBREVIATIONS

Aer. Eng. Suppl. The Aero-plane.	The Aeroplane— . . . Aeronautical Engineering Supplement to The Aeroplane, London.
Aer. Res. Comm., Rep. Mem . . .	Aeronautical Research Committee, Reports and Memoranda, London.
Aeron. Journ	Aeronautical Journal, London.
Aeronautics, Techn. Rep. Aer. Res. Comm.	Aeronautics. Technical Report of the Aeronautical Research Committee, London.
Amer. Mach	American Machinist, New York.
Ann. Soc. Mét. France	Annuaire, Société Météorologique de France, Paris.
Atti Assoc. Ital. Aerotecn	Atti dell'Associazione Italiana di Aerotechnica, Roma.
Aut. Mot. Flugw	Automobil-Motorrad-Flugwesen, Berlin.
Automotive Ind	Automotive Industries, New York.
Bull. Aero-Club Suisse	Bulletin, Aero Club Suisse, Berne.
Bull. Exper. Depart. Airplane Eng. Div.	The Bulletin of the Experimental Department, Airplane Engineering Division, U.S.A., Dayton, Ohio.
Bull. Féd. Aér. Int	Bulletin Fédération Aéronautique Internationale, Paris.
Bull. Soc. Enc. Ind. Nat	Bulletin de la Société d'Encouragement pour l'Industrie Nationale, Paris.
Deutsche Luftf. Zeitschr	Deutsche Luftfahrer Zeitschrift, Berlin.
Ind. Eng. Chem	Industrial and Engineering Chemistry, Washington, D.C.
Jahrb. 1929, Deutsch. Versuchsanstalt für Luftfahrt, E. V., Berlin-Adlershof.	Jahrbuch 1929 der Deutschen Versuchsanstalt für Luftfahrt, E.V., Berlin-Adlershof, München.
Journ. Amer. Soc. Mech. Eng	Journal of the American Society of Mechanical Engineers, New York.
Journ. Frankl. Inst	Journal of the Franklin Institute, Philadelphia.
Journ. Inst. Amer. Electr. Eng	Journal of the American Institute of Electrical Engineers, New York.
Journ. Mil. Serv. Inst	Journal of the Military Service Institution, Governors Island, New York.
Journ. Roy. Aer. Soc	Journal of the Royal Aeronautical Society, London.
Journ. Roy. Soc. Arts	Journal of the Royal Society of Arts, London.
Journ. Soc. Automotive Engineers.	Journal of the Society of Automotive Engineers, New York.
Journ. United States Art	Journal of the United States Artillery, Fortress Monroe, Va.
Mech. Eng	Mechanical Engineering, New York.
Nat. Aer. Mag	National Aeronautic Magazine, Washington, D.C.
Nat. Geog. Mag	National Geographic Magazine, Washington, D.C.
Pop. Mech	Popular Mechanics, Chicago.
Pop. Sci. Monthly	Popular Science Monthly, New York.
Proc. Amer. Inst. Electr. Eng	Proceedings of the American Society of Electrical Engineers, New York.
Proc. Nat. Acad. Sci	Proceedings of the National Academy of Sciences, Washington, D.C.
Proc. Phys.-Math. Soc. Japan	Proceedings of the Physico-Mathematical Society of Japan, Tokyo, Japan.

Proc. U.S. Nav. Inst.....	Proceedings of the United States Naval Institute, Annapolis, Md.
Quart. Journ. Roy. Met. Soc.---	Quarterly Journal of the Royal Meteorological Society, London.
Rend. Istituto Sper. Aer.....	Rendiconto dell'Istituto Sperimentale Aeronautico, Roma.
Rend. Teen. Dir. Sup. Genio Costr. Aeron.	Commissariato dell'Aeronautica. Intendenza Generale. Rendiconti Tecnici della Direzione Superiore del Genio e delle Costruzioni Aeronautiche. Roma.
Rév. Gén. Scien.....	Révue Générale Scientifique, Paris.
Riv. Aer.....	Rivista Aeronautica, Roma.
Riv. Ital. Aeron.....	Rivista Italiana Aeronautica, Roma.
Sat. Even. Post.....	Saturday Evening Post, Philadelphia, Pa.
Scient. Amer.....	Scientific American, New York.
Techn. Berichte.....	Technische Berichte, Charlottenburg.
Zeitschr. Angew. Math. Mech..	Zeitschrift für Angewandte Mathematik und Mechanik, Berlin.
Zeitschr. Flugt. Motorluftsch..	Zeitschrift für Flugtechnik und Motorluftschiffahrt, München und Berlin.
Zeitschr. Österr. Ing. Arch. Ver.	Zeitschrift des Österreichischen Ingenieur- und Architekten-Vereines, Wien.
Zeitschr. Ver. deutscher Ing....	Zeitschrift des Vereines deutscher Ingenieure, Berlin.

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By PAUL BROCKETT

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