

Corson, Blake W., Jr., Papers

Blake W. Corson, Jr., Papers
1861-1984



Title Statement

Corson, Blake W., Jr., Papers Blake W. Corson, Jr., Papers 1861-1984 (Bulk, 1934-1979) Ms.1990.055

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Descriptive Summary

Unit ID

Ms.1990.055

Unit Date

1861-1984

Unit Date

1934-1979

Language

The materials in the collection are in English.

Abstract

The Blake W. Corson, Jr., Papers are comprised of professional and personal files, correspondence, and published materials from 1861-1984 (bulk, 1934-1979), primarily relating to Corson's (1908-1991) career as an engineer at NASA Langley.

Creator

Corson, Blake W., Jr. (Blake Wilson), 1908-1991

Extent

17.7 Cubic Feet 9 boxes; 17 oversize folders

Physical Location

Please note: The majority collection is in off-site storage and requires 2-3 days notice for retrieval. Please contact Special Collections and University Archives for more information.

Repository

Special Collections and University Archives, Virginia Tech

Administrative Information

Conditions Governing Access

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Source of Acquisition

The Blake W. Corson, Jr., Papers were donated to Special Collections and University Archives in 1990.

Preferred Citation

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Biographical Note

Family History

Blake Wilson Corson, Sr., was born in Cumberland Virginia in 1874. Wilson Corson had five sisters. Corson attended Virginia Polytechnic Institute in 1895. Corson married Anne Mason "Annie" White on April 23, 1907.

Blake Wilson Corson, Jr., was born to Blake Wilson Corson, Sr. (1874-1962) and Anne Mason Corson (1874-1968) on October 1, 1908, in Henrico, Virginia. Corson had two younger sisters Judith Parker (born July 20, 1911) and Georgina White (born June 26, 1915). Blake W. Corson, Jr., married Shirley Huxter (1921-2014) on December 6, 1947. They had one daughter.

Corson, Sr., died in 1962, and Anne Corson died in 1968. They were buried together at Grace Episcopal Church.

Blake W. Corson, Jr., died at 83 on December 23, 1991. He was survived by his wife and daughter. Corson was buried in Peninsula Memorial Park Newport News. Shirley Corson died in 2014 at the age of 93.

Education and Work

Blake W. Corson, Jr., graduated from John Marshall High School. Corson, Jr., attended the University of Richmond and earned a B.S. in Mathmatics and Physics in 1932. In 1935 Corson, Jr., began working with the National Advisory Committee for Aeronautics and the Natioanl Aeronautical and Space Association. Corson, Jr., retired in 1972.

Patents

- Cascade Plug Nozzle, Filed :1974, 07, 12, Publication: 1976, 02, 17
- Nozzle: Filed: 1960, 05 , 23; Publication: 1961,12,12

Publications

- "The Aerodynamics of a Wind Tunnel Fan." NASA. 1941.
- "Model Tests of a Wing-Duct System for Auxiliary Air Supply." NASA. 1941.
- "The Belt Method for Measuring Pressure Distribution." NASA. 1943.
- "Cooling Characteristics of a Pratt and Whitney R-2800 Engine Installed in an NACA Short-nose High-inlet-velocity Cowling." NASA. 1944.
- "Analysis of Propeller Efficiency Losses Associated with Heated-air Thermal De-icing." NASA. 1946.
- "The Effect of Simulated Icing on Propeller Performance." NASA. 1946.
- "Investigation of the Effect of a Tip Modification and Thermal De-icing Air Flow on Propeller Performance." NASA. 1946.
- "A Review Of Propeller Theory" NASA. 1948.
- "The Langley 2,000 Horsspower propeller Dynamometer and Tests at High Speed of an NACA 10-(3)(08)-03 Two Blade Propeller". NASA. 1952.
- "Static Thrust of an Annular Nozzle with a Concave Central Base." NASA. 1960.
- "Transonic Thrust and Drag Characteristics of an Annular Nozzle Having a Semitoroidal Concave Plug." NASA. 1964.
- "Summary of Research on Jet Exit Installations." NASA. 1966.
- "Calibration of the Langley 16-Foot Transonic Tunnel with Test Section Air Removal." NASA. 1974.

Sources:

- "Black Wilson Corson Jr." obituary, *Daily Press* (Newport News, Va.), Dec. 25, 1991, p. A16, available online from Newsbank at https://infoweb-newsbank-com.ezproxy.lib.vt.edu/apps/news/openurl?ctx_ver=z39.88-2004&rft_id=info%3Aid/infoweb.newsbank.com&svc_dat=AWNB&req_dat=0D13EB2D702F7E0A&rft_val_format=info%3Aofi/fmt%3Akev%3Amtx%3Actx&rft_dat=document
- "Blake Wilson Corson Sr." entry, Findagrave.com, <https://www.findagrave.com/memorial/5313978/blake-wilson-corson>
- "Blake Wilson Corson Jr." entry, Findagrave.com, <https://www.findagrave.com/memorial/83447647/blake-wilson-corson>
- Ancestry.com Library Edition

Scope and Content

The Blake W. Corson, Jr., Papers are comprised of professional and personal files, correspondence, and published materials from 1861-1984 (bulk, 1934-1979), primarily relating to his career as an engineer at NASA Langley. Topics include aerodynamic performance of aircraft propellers and manned aircraft; wind tunnel fans, jet noise suppression, and tunnel calibration. This collection is organized into five series by material type.

Keywords

Aeronautical engineers
Archives of American Aerospace Exploration (AAAE)
Blueprints (reprographic copies)
Correspondence
Engineering Drawings
Memorandums
Physics
Physicists
Science and Technology
United States -- National Advisory Committee for Aeronautics -- Officials and employees
United States -- National Aeronautics and Space Administration -- Officials and employees
Becker, John V. (John Vernon), 1913-2020 -- Correspondence
Bierman, David -- Correspondence
United States. National Advisory Committee for Aeronautics
United States. National Aeronautics and Space Administration

Rights Statement for Archival Description

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Arrangement

This collection is organized into five series by material type.

Series I: Personal Papers, 1861-1865, 1962-1966, n.d. includes Corson's resume, personal photographs, and materials relating to the Corson family history, genealogy, and copies of family correspondence. This series is arranged by material type.

Series II: Personal Projects, 1941-1979, n.d. consists of research, subject files, patent forms, and extensive notes on a variety of research projects conducted by Corson outside of his work for Langley. The majority of this series surrounds two projects: "Toward Energy Independence" and Corson's interest in environmental clean up in the Newport News area. This series is arranged by project/topic.

Series III: Correspondence/Memorandum, 1938-1978, n.d. contains letters to and from a variety of scientists, researchers, community members, government employees, and some corporations and agencies. In addition, there are extensive memos written reporting on projects of which Corson was a part. There is a list of major correspondents below. This series in in chronological order.

Major correspondents in this collection include:

- A.W. Vogley
- Abe Silverstien
- Acoustics Division (Position Transfer)
- Admiral Ralph W. Cousins (Cleaning Up Newport News)
- Anita Cavagnara Associate Director (Cooperation and Research with Boeing)
- Bill Greathouse Booth (High Speed Tunnel)
- Chief Of Aerodynamics (High Speed Tunnel Reports)
- Chief of Compressibility Research (16ft High Speed Tunnel Rotating Seal)
- Chief of Compressibility Research (Project Z)
- Chief of Research (Mechanical Sink)
- Chief of Research (Propeller Projects and Papers)
- Chief of Research (Thermal Deiceing Propeller and Jet Driven Propeller)
- Clyde Lumpkin Construction Office, John D.R. Zeno (ASME Talk on Propeller Theory)
- David Biermann (Moffett Field/Langley Field Fans, R-2800 Engine)
- Director John R. Erwin (Shadow Graph Wing Shock)
- Donald D. Amos (Oscillating Orifice Pump)
- Donald D. Baals
- Dr. Adolph Busemann
- Dr. Clinton C. Kemp E. Boxer (Compressor Noise Reduction)
- E. J. Manganilleo E. Johnson (Moffett Field Fans)
- Edgar M. Cartright Energy Research and Development Administration Engineer in Charge (High Speed Tunnel)
- Engineer in Charge (Servo Control) FAECT-- PAC Committee of Chapter 15
- Frank Smiley (Newport News City Manager)
- G.W. Lewis

- George R. Kinney
- H. J. E. Reid
- H.B. Edwards (16 foot Wind Tunnel Fan Blades)
- Hamilton Standard Division
- Harleth G. Wiley (Research and Technology Resume Numbering System)
- Harry E. Shanner
- Henry Balfour
- Howard J. Osborn; Office of Patent Council LRC (Mutiple Cell Toridal Vortex Tube)
- Hugh L. Dryden (University Conference on Aerodynamics)
- J. G. McHugh
- J.M. Carson, Jr. (Office Patent Council)
- J.O. Tresansky (Office Patent Council)
- J.W. Crowley
- James B. Delanor
- John L. Crigler
- John N. Randolph (Patent, Improved Type of Crate for Bottled Beverages)
- John V. Becker (Moffett Field Tunnel Fans)
- Keffer (Langley Field Rear Propeller)
- L. R. Quarles (Blade Elements)
- Lawrence K. Loftin, Jr. (McDonnel Douglas Review)
- Leland B. Salters, Jr.
- Lindsey I . Turner (Oscillating Orifice Pump)
- Lowell Hasel
- Manned Spacecraft Center
- Mark R. Nichols (VTOL, FSRD)
- Mason (16 ft Wind Tunnel Study and Alteration)
- Mason (Gust Tunnel)
- Messick (Langley Field Rear Fan)
- Michael A. Chaszeyka (McDonnell Douglas Review)
- Mr. DeFraue (Two Dimensional Pressure Tunnel)
- Mr.Wood (Free-Flight Tunnel)
- NACA/LMAL Travel Permission
- Norman Silvers
- P.W. Mangen (Hotel New Yorker)
- Paul Taynton (Texaco; Hydrazine in Fuel)
- Peninsula Planning District Commission (Cleaning Up Newport News)
- Planning Office of the Technical Service Division
- President Jimmy Carter (Energy Crisis)
- R.C. Platt
- R.J. Landberg (McDonnell Douglas Review)
- Ray W. Hooker (Gust Tunnel)
- Ribner
- Richard O. Carden
- Robert R. Gilruth
- S. Walter Hixton Jr. (Management Training)
- State Corporation Commission
- Sylvia Thomas (S.A.E.)
- Tab Smith (York County Board of Supervisors)
- Travel Request and Authorization U.S. Office of Patents (Purox System)
- Union Carbide Corporation (Cleaning up Newport News/ Towards Energy Independence)
- William A. Harding
- William A. Scheller

Series IV: Professional Projects, 1937-1984, n.d. includes a small group of outlines and reports. This series primarily consist of five subseries, organized by topic/project, consisting of a variety of formats from Corson's work as an Aerospace Engineer with NASA.

Subseries A: Research Tunnels includes papers and research relating to a variety of tunnels on which Corson worked (other than the 16 foot Transonic Tunnel (which is its own subseries below).

Subseries B: Propellers and Propeller Research includes notes, graphs, calculations, and subject files on propellers and fan designs.

Subseries C: Nozzles and Nozzle Research includes reports, notes, figures, proposals, and designs for nozzles.

Subseries D: Research Projects contains drawings, calculations, notes, and subject files on topics relating to aspects of flight and engineering, especially certain parts or processes.

Subseries E: 16 Foot Transonic Tunnel and Research includes extensive notes, photographs, calculations, notes, and reports on one of Corson's major projects and research topics. Materials in these series, subseries, and sub-subseries are organized by topic/subject.

Major projects in this series include:

- 19 Foot Pressure Tunnel
- 20 Spin Tunnel
- AERL Ice Tunnel
- Air Breathing Propulsions Systems
- Annular Nozzle with a Concave Central base
- Annular Nozzle with a Semi Toridal Base
- Carderock Wind Tunnel
- Cascade Plug Nozzle
- Convergent Divergent Nozzle
- Exhaust Nozzle and Jet Nozzle Performance
- High Speed Tunnel
- Jet Interference Program
- McDonnell Douglas Review
- Moffett Field
- Perforated Diffuser Nozzle Bifurcated Rotary Joint
- Propeller Research Tunnel
- Stability Tunnel
- Swept Wing
- Transonic Tunnel
- Two Dimensional Pressure Tunnel

Series V: Publications, Journals, and Reports, 1934-1982 contains published works by Corson or collected by him for research purposes. The majority are directly related to projects on which Corson worked. This series includes six subseries, organized by type of publication (Publications, Reports, Papers, Journals, Articles, and Pamphlets, Brochures, and Directories). Materials in each subseries are organized alphabetically by title.

Description of Subordinate Components

Series I: Personal Papers

Unit Date 1861-1865, 1962-1966, n.d.

Keywords

Civil War

Family histories

Resume

Unit Date n.d.

box-folder 1 (box)

Container 1 (folder)

Photographs--Corson
Unit Date 1962-1966, n.d.
box-folder 1 (box)
Container 2 (folder)

Subseries A: Family History and Letter Copies

"My Dear Jennie"--Author: William Clark Corson; Editor: Blake W. Corson, Jr.
Unit Date 1861-1865
box-folder 1 (box)
Container 3 (folder)

"My Dear Jennie"--1861 Letters; Correspondence-- William Clark Corson, Jennie
Unit Date 1861, n.d.
box-folder 1 (box)
Container 4 (folder)

"My Dear Jennie"--1862 Letters; Correspondence-- William Clark Corson, Jennie
Unit Date 1862, n.d.
box-folder 1 (box)
Container 5 (folder)

"My Dear Jennie"--1863 Letters; Correspondence-- William Clark Corson, Jennie
Unit Date 1863, n.d.
box-folder 1 (box)
Container 6 (folder)

"My Dear Jennie"--1864 Letters; Correspondence-- William Clark Corson, Jennie
Unit Date 1864, n.d.
box-folder 1 (box)
Container 7 (folder)

"My Dear Jennie"--1865 Letters; Correspondence-- William Clark Corson, Jennie; Closing Quote
Unit Date 1865, n.d.
box-folder 1 (box)
Container 8 (folder)

Series II: Personal Projects

Unit Date 1941-1979, n.d.

Keywords

Aeronautics
Aerospace engineers
Photographs
Airplanes

VT Bomb Fuse
Unit Date n.d.
box-folder 1 (box)
Container 9 (folder)

Practice Problems--Least of Squares
Unit Date 1941
box-folder 1 (box)
Container 10 (folder)

Proposal Outlining the Feasibility of Humans in Space --Notes/Data
Unit Date 1946, n.d.
box-folder 1 (box)
Container 11 (folder)

Patent Forms--NAVEXOS
Unit Date 1951, n.d.
box-folder 1 (box)
Container 12 (folder)

Subseries A: Towards Energy Independence

box 1
folder 1 (oversize)

Scope and Contents
Materials from this sub-series are in Box 1 (folders listed below) and in oversize Folder 1.

"Towards Energy Independence"-- Research
Unit Date 1974-1976
box-folder 1 (box)
Container 13 (folder)

"Towards Energy Independence"--Research Notes
Unit Date 1975
box-folder 1 (box)
Container 14 (folder)

Inter Technology Corporation--"The Enerfy Plantation" (Cr. Clinton C. Kemp)

Unit Date 1975
box-folder 1 (box)
Container 15 (folder)

Professional Engineer--"Energy from Municipal Refuse a Comparison of 10 Processes"

Unit Date ca. 1976
box-folder 1 (box)
Container 16 (folder)

U.S. News and World Report--Issue February 14 1977; pg 23-26, 63-66

Unit Date 1977
box-folder 1 (box)
Container 17 (folder)

"Towards Energy Independence"--Notes/Proposal Draft

Unit Date 1977, n.d.
box-folder 1 (box)
Container 18 (folder)

"Towards Energy Independence"--Proposal Draft

Unit Date 1977
box-folder 1 (box)
Container 19 (folder)

"Towards Energy Independence"--Proposal Final

Unit Date 1977
box-folder 1 (box)
Container 20 (folder)

"Towards Energy Independence"

Unit Date 1977
box-folder 1 (box)
Container 21 (folder)

The Virginia Engineer--Volume 27, Number 8 (Two Copies)

Unit Date 1977
box-folder 1 (box)
Container 22 (folder)

Subseries B: Cleaning Up Newport News

box 1
folder 1 (oversize)

Scope and Contents

Materials from this sub-series are in Box 1 (folders listed below) and in oversize Folder 1.

"Cleaning Up Newport News"/ "Towards Energy Independence"--Tables/Maps/Figures

Unit Date n.d.
box-folder 1 (box)
Container 23 (folder)

Union Carbide--Purox System: Fuel Gas Characteristics

Unit Date 1974-1976
box-folder 1 (box)
Container 24 (folder)

Union Carbide--Purox System: Waste Resource Recovery

Unit Date 1975
box-folder 1 (box)
Container 25 (folder)
Keywords
Correspondence

Notes on Purox Patent

Unit Date 1975, n.d.
box-folder 1 (box)
Container 26 (folder)

Union Carbide--The Purox System (T.F. Fisher, M.L. Kasbohm, J.R. Rivero)

Unit Date 1975
box-folder 1 (box)
Container 27 (folder)

Union Carbide--"The Production of Industrial Gases from Air" (R.L. Shaner)

Unit Date 1976
box-folder 1 (box)
Container 28 (folder)

Union Carbide-- "Linde Molecular Sieves"

Unit Date 1976
box-folder 1 (box)
Container 29 (folder)

Union Carbide-- "Purox System Charecteristics"

Unit Date 1976
box-folder 1 (box)
Container 30 (folder)

Union Carbide--"Molecular Sieves in the Process Industries"

Unit Date 1976
box-folder 1 (box)
Container 31 (folder)

Times Herald--Articles on Cleaning Up Newport News (by BWC)

Unit Date 1976
box-folder 1 (box)
Container 32 (folder)

"Look Ahead Newport News"--Research/Notes

Unit Date 1977, n.d.
box-folder 1 (box)
Container 33 (folder)

Origional Text--"Look Ahead Newport News"

box-folder 1 (box)
Container 34 (folder)

"Look Ahead Newport News" -- Proposal Draft

Unit Date 1977
box-folder 1 (box)
Container 35 (folder)

"Look Ahead Newport News"

Unit Date 1977
box-folder 1 (box)
Container 36 (folder)

Times Herald--Newport News Waste

Unit Date 1977-1978
box-folder 1 (box)
Container 37 (folder)

"Abolish The Dung Heaps"-- Draft

Unit Date 1978
box-folder 1 (box)
Container 38 (folder)

"Abolish The Dung Heaps"

Unit Date 1978
box-folder 1 (box)
Container 39 (folder)

Reflective Beam--Calculations/Sketches

Unit Date 1979, n.d.
box-folder 1 (box)
Container 40 (folder)

Series III: Correspondence/Memorandum

Unit Date 1938-1978, n.d.

Keywords

Memorandums
Aeronautics
Correspondence
Langley Aeronautical Laboratory

Correspondence--Mason (Gust Tunnel)

Unit Date n.d.
box-folder 1 (box)
Container 41 (folder)

Correspondence--Construction Office, John

Unit Date n.d.
box-folder 1 (box)
Container 42 (folder)

Memorandum--Mr. DeFraue (Two Dimensional Pressure Tunnel)

Unit Date 1938
box-folder 1 (box)
Container 43 (folder)

Correspondence-- H. J. E. Reid

Unit Date 1938
box-folder 1 (box)
Container 44 (folder)

Correspondence-- G.W. Lewis and R.C. Platt

Unit Date 1938, ca.1970

box-folder 1 (box)

Container 45 (folder)

Memorandum--Mr.Wood (Free-Flight Tunnel)

Unit Date 1939

box-folder 1 (box)

Container 46 (folder)

Memorandum--Chief Of Aerodynamics (High Speed Tunnel Reports)

Unit Date 1940-1943

box-folder 1 (box)

Container 47 (folder)

Correspondence-- FAECT-- PAC Committee of Chapter 15

Unit Date 1941-1943, n.d.

box-folder 1 (box)

Container 48 (folder)

Memorandum-- Engineer in Charge (Servo Control)

Unit Date 1942

box-folder 1 (box)

Container 49 (folder)

Memorandum-- For Files (Pressure Belt Analysis)

Unit Date 1942

box-folder 1 (box)

Container 50 (folder)

Correspondence--Mason (16 ft Wind Tunnel Study and Alteration)

Unit Date ca. 1942

box-folder 1 (box)

Container 51 (folder)

Memorandum-- Messick (Langley Field Rear Fan)

Unit Date 1942

box-folder 1 (box)

Container 52 (folder)

Memorandum--Keffer (Langley Field Rear Propeller)

Unit Date 1942

box-folder 1 (box)

Container 53 (folder)

Memorandum-- E. Johnson (Moffett Field Fans)

Unit Date 1942

box-folder 1 (box)

Container 54 (folder)

Correspondence--L. R. Quarles (Blade Elements)

Unit Date 1942-1943

box-folder 1 (box)

Container 55 (folder)

Memorandum-- David Biermann (Moffett Field/Langley Field Fans, R-2800 Engine)

Unit Date 1942-1943

box-folder 1 (box)

Container 56 (folder)

Memorandum-- H.B. Edwards (16 foot Wind Tunnel Fan Blades)

Unit Date 1943

box-folder 1 (box)

Container 57 (folder)

Memorandum-- J.W. Crowley

Unit Date 1943

box-folder 1 (box)

Container 58 (folder)

Correspondence--Planning Office of the Technical Service Division

Unit Date 1943

box-folder 1 (box)

Container 59 (folder)

Memorandum-- Ray W. Hooker (Gust Tunnel)

Unit Date 1943

box-folder 1 (box)

Container 60 (folder)

Memorandum--Chief of Compressibility Research (16ft High Speed Tunnel Rotating Seal)

Unit Date 1943-1944

box-folder 1 (box)

Container 61 (folder)

Memorandum--Booth (High Speed Tunnel)

Unit Date 1943-1944

box-folder 1 (box)

Container 62 (folder)

Memorandum-- Engineer in Charge (High Speed Tunnel)

Unit Date 1943-1945

box-folder 1 (box)

Container 63 (folder)

Memorandum-- John V. Becker (Moffett Field Tunnel Fans)

Unit Date 1943-1945

box-folder 1 (box)

Container 64 (folder)

Memorandum-- Clyde Lumpkin

Unit Date 1944

box-folder 1 (box)

Container 65 (folder)

Memorandum/Photos--Chief of Research (Thermal Deicing Propeller and Jet Driven Propeller)

Unit Date 1944

box-folder 1 (box)

Container 66 (folder)

Memorandum--Chief of Research (Propeller Projects and Papers)

Unit Date 1944-1945

box-folder 1 (box)

Container 67 (folder)

Correspondence--Bill Greathouse

Unit Date 1944, 1970

box-folder 1 (box)

Container 68 (folder)

Correspondence--Unidentified

Unit Date 1945

box-folder 1 (box)

Container 69 (folder)

Correspondence--A.W. Vogley

Unit Date 1945

box-folder 1 (box)

Container 70 (folder)

Correspondence-- John L. Crigler

Unit Date 1945

box-folder 1 (box)

Container 71 (folder)

Correspondence--J. G. McHugh

Unit Date 1945

box-folder 1 (box)

Container 72 (folder)

Correspondence--Ribner

Unit Date 1945

box-folder 1 (box)

Container 73 (folder)

Correspondence-- James B. Delanor

Unit Date 1945

box-folder 1 (box)

Container 74 (folder)

Correspondence/Notes--NACA/LMAL Travel Permission

Unit Date 1945-1957

box-folder 1 (box)

Container 75 (folder)

Memorandum-- Chief of Compressibility Research (Project Z)

Unit Date 1946, n.d.

box-folder 1 (box)

Container 76 (folder)

Memorandum--J.P.L. Appendix

Unit Date 1946
box-folder 1 (box)
Container 77 (folder)

Memorandum-- Chief of Research (Mechanical Sink)

Unit Date 1946
box-folder 1 (box)
Container 78 (folder)

Memorandum-- Personal Request

Unit Date 1947
box-folder 1 (box)
Container 79 (folder)

Memorandum-- Dr. Adolph Busemann

Unit Date 1947
box-folder 1 (box)
Container 80 (folder)

Memorandum-- Director John R. Erwin (Shadow Graph Wing Shock)

box-folder 1 (box)
Container 81 (folder)

Correspondence-- Sylvia Thomas (S.A.E.)

Unit Date 1947
box-folder 1 (box)
Container 82 (folder)

Correspondence-- Hugh L. Dryden (University Conference on Aerodynamics)

Unit Date 1948
box-folder 1 (box)
Container 83 (folder)

Correspondence-- Henry Balfour

Unit Date 1948
box-folder 1 (box)
Container 84 (folder)

Correspondence-- P.W. Mangen (Hotel New Yorker)

Unit Date 1948
box-folder 1 (box)
Container 85 (folder)

Correspondence-- D.R. Zeno (ASME Talk on Propeller Theory)

Unit Date 1949
box-folder 1 (box)
Container 86 (folder)

Correspondence -- Anita Cavagnara

Unit Date 1949
box-folder 1 (box)
Container 87 (folder)

Memorandum-- Changes to the Full Scale Research Division

Unit Date 1949-1962
box-folder 1 (box)
Container 88 (folder)

Correspondence-- John N. Randolph (Patent, Improved Type of Crate for Bottled Beverages)

Unit Date 1961
box-folder 1 (box)
Container 89 (folder)

Memorandum-- Robert R. Gilruth

Unit Date 1952
box-folder 1 (box)
Container 90 (folder)

Correspondence-- E. J. Manganilleo, Abe Silverstien, Lewis

Unit Date 1953
box-folder 1 (box)
Container 91 (folder)

Correspondence--Norman Silvers

Unit Date 1957
box-folder 1 (box)
Container 92 (folder)

Memorandum-- Acoustics Division (Position Transfer)

Unit Date 1957-1958

box-folder 1 (box)

Container 93 (folder)

Correspondence--J.O. Tresansky; J.M. Carson, Jr. (Office Patent Council)

Unit Date 1959-1962

box-folder 1 (box)

Container 94 (folder)

Memorandum--Editorial Review of "Static Thrust of an Annular Jet Exit with a Concave Base"

Unit Date 1960

box-folder 1 (box)

Container 95 (folder)

Correspondence-- Paul Taynton (Texaco; Hydrazine in Fuel)

Unit Date 1961

box-folder 1 (box)

Container 96 (folder)

Memorandum-- Associate Director (Cooperation and Research with Boeing)

Unit Date 1962

box-folder 1 (box)

Container 97 (folder)

Memorandum-- Manned Spacecraft Center

Unit Date 1962

box-folder 1 (box)

Container 98 (folder)

Correspondence/Forms--Travel Request and Authorization

Unit Date 1963-1970

box-folder 1 (box)

Container 99 (folder)

Correspondence-- Howard J. Osborn; Office of Patent Council LRC (Multiple Cell Toridal Vortex Tube)

Unit Date 1964-1967

box-folder 1 (box)

Container 100 (folder)

Memorandum-- Donald D. Baals

Unit Date 1966

box-folder 1 (box)

Container 101 (folder)

Memorandum-- S. Walter Hixton Jr. (Management Training)

Unit Date 1966-1968

box-folder 1 (box)

Container 102 (folder)

Correspondence-- Hamilton Standard Division

Unit Date 1966

box-folder 1 (box)

Container 103 (folder)

Memorandum--Mark R. Nichols (VTOL, FSRD)

Unit Date 1966, 1972

box-folder 1 (box)

Container 104 (folder)

Memorandum-- Program Changes (FSRD)

Unit Date 1967, n.d.

box-folder 1 (box)

Container 105 (folder)

Correspondence--E. Boxer (Compressor Noise Reduction)

Unit Date 1967

box-folder 1 (box)

Container 106 (folder)

Memorandum-- Lindsey I. Turner (Oscillating Orifice Pump)

Unit Date 1967

box-folder 1 (box)

Container 107 (folder)

Memorandum-- Donald D. Amos (Oscillating Orifice Pump)

Unit Date 1967

box-folder 1 (box)

Container 108 (folder)

Correspondence-- Michael A. Chaszeyka, Lawrence K. Loftin, Jr. (McDonnel Douglas Review)

Unit Date 1968

box-folder 1 (box)

Container 109 (folder)

Correspondence -- R.J. Landberg (McDonnell Douglas Review)

box-folder 1 (box)

Container 110 (folder)

Correspondence--Harry E. Shanner

Unit Date 1969

box-folder 1 (box)

Container 111 (folder)

Correspondence--George R. Kinney

Unit Date 1971

box-folder 1 (box)

Container 112 (folder)

Correspondence-- Harleth G. Wiley (Research and Technology Resume Numbering System)

Unit Date 1971

box-folder 1 (box)

Container 113 (folder)

Correspondence--Lowell Hasel

Unit Date 1972

box-folder 1 (box)

Container 114 (folder)

Memorandum--Leland B. Salters, Jr.

Unit Date 1972

box-folder 1 (box)

Container 115 (folder)

Correspondence/Contracts/Reciepts-- Salters

Unit Date 1973, n.d.

box-folder 1 (box)

Container 116 (folder)

Correspondence--Union Carbide Corporation (Cleaning up Newport News/ Towards Energy Independence)

Unit Date 1973-1978

box-folder 1 (box)

Container 117 (folder)

Correspondence-- Edgar M. Cartright

Unit Date 1974

box-folder 1 (box)

Container 118 (folder)

Correspondence-- Dr. Clinton C. Kemp

Unit Date 1975

box-folder 1 (box)

Container 119 (folder)

Correspondence--U.S. Office of Patents (Purox System)

Unit Date 1975

box-folder 1 (box)

Container 120 (folder)

Correspondence-- William A. Scheller

Unit Date 1976

box-folder 1 (box)

Container 121 (folder)

Correspondence--Peninsula Planning District Commission (Cleaning Up Newport News)

Unit Date 1976

box-folder 1 (box)

Container 122 (folder)

Correspondence-- William A. Harding

Unit Date 1976

box-folder 1 (box)

Container 123 (folder)

Correspondence-- Richard O. Carden

Unit Date 1977

box-folder 1 (box)

Container 124 (folder)

Correspondence--President Jimmy Carter (Energy Crisis)

Unit Date 1977
box-folder 1 (box)
Container 125 (folder)

Correspondence-- Frank Smiley (Newport News City Manager)

Unit Date 1977
box-folder 1 (box)
Container 126 (folder)

Correspondence-- Admiral Ralph W. Cousins (Cleaning Up Newport News)

Unit Date 1977
box-folder 1 (box)
Container 127 (folder)

Correspondence--Energy Research and Development Administration

Unit Date 1977-1978
box-folder 1 (box)
Container 128 (folder)

Correspondence--Tab Smith (York County Board of Supervisors)

Unit Date 1978
box-folder 1 (box)
Container 129 (folder)

Correspondence--State Corporation Commission

Unit Date 1978
box-folder 1 (box)
Container 130 (folder)

Series IV: Professional Projects

Unit Date 1937-1984, n.d.

Keywords
Reports
Aerospace engineers
Notes (documents)
Engineering Drawings

Management Training--Outlines/Reports

Unit Date 1966-1968
box-folder 1 (box)
Container 131 (folder)

Subseries A: Research Tunnels

folder 10 (oversize)
folder 12 (oversize)
folder 13 (oversize)
folder 14 (oversize)
folder 15 (oversize)
folder 16 (oversize)
folder 17 (oversize)

Scope and Contents

Materials from this sub-series are in Box 1 (folders listed below) and in oversize Folders 10-17.

7' by 10' Wind Tunnel--Obsolete Propeller Design

Unit Date n.d.
box-folder 1 (box)
Container 132 (folder)

Sub-subseries i: AERL Deicing

folder 11 (oversize)

Scope and Contents

Materials from this sub-subseries are in Box 1 (folders listed below) and in oversize Folder 11.

"The Effect of Ice and Heated-Air Deicing on the Aerodynamic Performance of Propellers" (Transparet Report)

Unit Date n.d.
box-folder 1 (box)
Container 133 (folder)

"The Effect of Ice and Heated-Air Deicing on the Aerodynamic Performance of Propellers" --Report

Unit Date n.d.
box-folder 1 (box)
Container 134 (folder)

"The Effect of Ice and Heated-Air Deicing on the Aerodynamic Performance of Propellers" (Figures)

Unit Date n.d.
box-folder 1 (box)
Container 135 (folder)

AERL Ice Tunnel--Countervanes

Unit Date n.d.
box-folder 1 (box)
Container 136 (folder)

AERL Ice Tunnel -- Propellers

Unit Date 1937-1938
box-folder 1 (box)
Container 137 (folder)

AERL Ice Tunnel-- Estimation of Air State of Fan (Drawings/Notes)

Unit Date 1942, n.d.
box-folder 1 (box)
Container 138 (folder)

AERL Ice Tunnel-- Propellers (Calculations/Notes)

Unit Date 1942
box-folder 1 (box)
Container 139 (folder)

AERL Ice Tunnel-- Countervane Design Analysis (Calculations/Notes)

Unit Date 1943, 1967, n.d.
box-folder 1 (box)
Container 140 (folder)

AERL Ice Tunnel-- Simulated Propeller Icing (Department Meeting; Summary/Figures)

Unit Date 1944
box-folder 1 (box)
Container 141 (folder)

Sub-subseries ii: Propeller Research Tunnel

Language English.

P.R.T. Torque Dynamometer (Drawings)

Unit Date n.d.
folder 2 (box)
Container 1 (folder)

P.R.T. Propeller Blade Deflection--Report

Unit Date n.d.
box-folder 2 (box)
Container 2 (folder)

P.R.T. Propeller--Analysis/Graphs/Notes

Unit Date 1937, n.d.
box-folder 2 (box)
Container 3 (folder)

P.R.T. Propeller: Aerodynamic and Stress Analysis-- Graphs/Notes

Unit Date 1937-1938
box-folder 2 (box)
Container 4 (folder)

P.R.T. Full Scale Tunnel: Wooden Propeller--Calculation/Graphs/ Notes

Unit Date 1938, n.d.
box-folder 2 (box)
Container 5 (folder)

P.R.T. Wood Propeller--Calculations/Graphs/Notes

Unit Date 1938, n.d.
box-folder 2 (box)
Container 6 (folder)

19 Foot P.R.T. Wooden Propeller Hub Specifications-- Notes/Report

Unit Date 1937, 1939
box-folder 2 (box)
Container 7 (folder)

Sub-subseries iii: Two Dimensional Pressure Tunnel**Two Dimensional Pressure Tunnel Propeller VI (F-6159; A-Twisted) -- Calculations/Notes/Tables**

Unit Date 1938, 1939, n.d.
box-folder 2 (box)
Container 8 (folder)

Two Dimension Pressure Tunnel Specifications-- Notes/Report

box-folder 2 (box)
Container 9 (folder)

Sub-subseries iv: High Speed Tunnel

folder 14 (oversize)

Scope and Contents

Materials from this sub-subseries are in Box 2 (folders listed below) and in oversize Folder 14.

High Speed Wind Tunnel Propeller Design Charts-- Notes/Tables**Unit Date** n.d.**box-folder** 2 (box)**Container** 10 (folder)**High Speed Tunnel Boundary Layer-- Calculations/Data/Graphs****Unit Date** n.d.**box-folder** 2 (box)**Container** 11 (folder)**High Speed Tunnel--Combined Correlation and Friction/ Horsepower Tests--Calculations/Graphs/Tables****Unit Date** n.d.**box-folder** 2 (box)**Container** 12 (folder)**High Speed Tunnel Propellers--Obsolete Design (Calculations/Graphs/Notes)****Unit Date** 1939, n.d.**box-folder** 2 (box)**Container** 13 (folder)**High Speed Tunnel-- Rear Propeller (Graphs/Tables)****Unit Date** 1940, n.d.**box-folder** 2 (box)**Container** 14 (folder)**High Speed Tunnel: Front Propeller-- Calculations/Graphs/Notes****Unit Date** 1940-1942, n.d**box-folder** 2 (box)**Container** 15 (folder)**High Speed Tunnel Counter Balance for Rear Propeller--Calculations/Design/ Notes****Unit Date** 1942**box-folder** 2 (box)**Container** 16 (folder)**High Speed Wind Tunnel: Fan Calibrations****Unit Date** 1954-1956, n.d.**box-folder** 2 (box)**Container** 17 (folder)**Sub-subseries v: Moffett Field****Moffett Field: Scale Tunnel Propeller and Variable Pitch--Figures/Notes****Unit Date** n.d.**box-folder** 2 (box)**Container** 18 (folder)**Moffett Field Rear Propeller-- Calculations/Graphs/Notes****Unit Date** 1939, n.d.**box-folder** 2 (box)**Container** 19 (folder)**Moffett Field Front Propeller Specifications-- Calculations/Notes****Unit Date** 1939, n.d.**box-folder** 2 (box)**Container** 20 (folder)**Moffett Field Front Propeller Hub--Calculations/Graphs/Notes****Unit Date** 1939, n.d.**box-folder** 2 (box)**Container** 21 (folder)**Moffett Field Wind Tunnel Propeller--Calculations/Graphs/Notes****Unit Date** 1939, n.d.**box-folder** 2 (box)**Container** 22 (folder)**Moffett Field Tunnel Propellers-- Calculations/Figures/Graphs/Photographs/Notes****Unit Date** 1942-1944**box-folder** 2 (box)**Container** 23 (folder)**Keywords**

Becker, John V. (John Vernon), 1913-2020 -- Correspondence

Johnson, E. -- Correspondence

Bierman, David -- Correspondence

Sub-subseries vi: 20 Foot Spin Tunnel**20 Foot Spin Tunnel Propeller Hub Design-- Calculations/Notes****Unit Date** n.d.**box-folder** 2 (box)**Container** 24 (folder)

20 Foot Spin Tunnel Obsolete Designs-- Calculations/Graphs/Tables

Unit Date 1939
box-folder 2 (box)
Container 25 (folder)

20 Foot Spin Tunnel Propeller Acceleration Stress Analysis

Unit Date 1939-1940. n.d.
box-folder 2 (box)
Container 26 (folder)

20 Foot Spin Tunnel: 5 Blade Propeller Design--Calculations/Notes

Unit Date 1939-1940, n.d.
box-folder 2 (box)
Container 27 (folder)

20 Foot Spin Tunnel Propeller Hub--Calculations/Drawings/Notes

Unit Date 1940, n.d.
box-folder 2 (box)
Container 28 (folder)

20 Foot Spin Tunnel: 3 Blade Propeller-- Calculations/Notes/Tables

Unit Date 1940, n.d.
box-folder 2 (box)
Container 29 (folder)

Sub-subseries vii: Stability Tunnel

folder 9 (oversize)

Scope and Contents

Materials from this sub-subseries are in Box 2 (folders listed below) and in oversize Folder 9.

6ft by 6ft Stability Tunnel Propeller--Calculations/Notes

Unit Date 1940, n.d.
box-folder 2 (box)
Container 30 (folder)

Stability Tunnel: Original Motor Housing, Cooling, and Countervanes--Calculations/Notes

Unit Date 1940, n.d.
box-folder 2 (box)
Container 31 (folder)

Stability Tunnel Propeller Hub--Notes/Tables

Unit Date 1940, n.d.
box-folder 2 (box)
Container 32 (folder)

Stability Tunnel Countervanes--Notes/Graphs

box-folder 2 (box)
Container 33 (folder)

Sub-subseries viii: Carderock Wind Tunnel

folder 12 (oversize)

Scope and Contents

Materials from this sub-subseries are in Box 2 (folders listed below) and in oversize Folder 12.

Carderock Wind Tunnel--Figures/Graphs

Unit Date n.d.
box-folder 2 (box)
Container 34 (folder)

Carderock Wind Tunnel Design--Figures/Notes

Unit Date 1943, n.d.
box-folder 2 (box)
Container 35 (folder)

Flutter Tunnel--Figures/Report

Unit Date 1946
box-folder 2 (box)
Container 36 (folder)

Gust Tunnel: Propellers-- Drawings/Notes

Unit Date 1943, n.d.
box-folder 2 (box)
Container 37 (folder)

Subseries B: Propellers and Propeller Research

folder 8 (oversize)

Scope and Contents

Materials from this sub-subseries are in Box 2 (folders listed below) and in oversize folders (listed below), as well as in oversize Folder 8.

Sub-Subseries i: Propeller Theory

Propeller Theory-- Bibliography Outline

Unit Date n.d.
box-folder 2 (box)
Container 38 (folder)

"A Review of Propeller Theory"-- Draft

Unit Date n.d.
box-folder 2 (box)
Container 39 (folder)

"A Review of Propeller Theory" (By Blake W. Corson)

Unit Date n.d.
box-folder 2 (box)
Container 40 (folder)

Propeller Theory Airfoil Characteristics--Figures

Unit Date n.d.
box-folder 2 (box)
Container 41 (folder)

Propeller Theory Airfoil Characteristics--Negative Figures

Unit Date n.d.
box-folder 2 (box)
Container 42 (folder)

Analysis of Propeller Data: Induced Angle--Calculations/Notes

Unit Date n.d.
box-folder 2 (box)
Container 43 (folder)

Indication of Velocity Distribution by a Catenary

Unit Date n.d.
box-folder 2 (box)
Container 44 (folder)

NACA Propellers--Figures

Unit Date n.d.
box-folder 2 (box)
Container 45 (folder)

Air Psychrometric Chart for Various Pressures

Unit Date n.d.
box-folder 2 (box)
Container 46 (folder)

Hooded Propellers--Original Figures 2-56 (Mastrocola)

Unit Date n.d.
folder 6 (oversize)
box-folder 2 (box)
Container 47 (folder)

Westphal Compressor--Graphs/Notes

Unit Date n.d.
box-folder 2 (box)
Container 48 (folder)

Free Vortex--Calculations/Notes

Unit Date n.d.
box-folder 2 (box)
Container 49 (folder)

XSC: Temperature Dispersion Engine Tests--Tables

Unit Date n.d.
box-folder 2 (box)
Container 50 (folder)

Engine Cooling Correlation--Report

Unit Date n.d.
box-folder 2 (box)
Container 51 (folder)

7'by 10' Wind Tunnel: Motor Cooling and Fairing--Calculations/Notes

Unit Date n.d.
box-folder 2 (box)
Container 52 (folder)

12 ft Free Flight Propeller--Data/Notes

Unit Date 1938, 1944, n.d.
box-folder 2 (box)
Container 53 (folder)

Sub-subseries ii: XF4U-1

XF4U-1--Photographs

Unit Date n.d.
box-folder 2 (box)
Container 54 (folder)

XF4U-1--Reports

Unit Date 1938, n.d.
box-folder 2 (box)
Container 55 (folder)

Wind Tunnel Tests for Vought XF4U-1-- NACA Report

Unit Date 1939
box-folder 2 (box)
Container 56 (folder)

XF4U-1 Extract: Model Tests of a Wing Duct System for Auxililary Air Supply--Report

Unit Date 1940
box-folder 2 (box)
Container 57 (folder)

Vought XF4U-1 Cuff-- Data/Graphs

Unit Date 1941, n.d.
box-folder 2 (box)
Container 58 (folder)

Wind Tunnel Fan Design (TN-820)--Charts

Unit Date n.d.
box-folder 2 (box)
Container 59 (folder)

Wind Tunnel Fan Design--Figures/Graphs/Notes

Unit Date 1940, n.d.
box-folder 2 (box)
Container 60 (folder)

Martian B-26: Modified Cowling, Entrance Computations, Cuff Design

Unit Date 1941, n.d.
box-folder 2 (box)
Container 61 (folder)

Hooded Propellers-- Draft

Unit Date 1941, 1942, n.d.
folder 6 (oversize)
box-folder 2 (box)
Container 62 (folder)

Preliminary Hooded Propellers Program Tests--Report

Unit Date 1942
box-folder 2 (box)
Container 63 (folder)
folder 6 (oversize)

Propeller: P-62--Graphs/Notes

Unit Date 1941, n.d.
box-folder 2 (box)
Container 64 (folder)

E.R.L. Cleveland Wind Tunnel --Propeller Check:Analysis; Cleveland

Unit Date 1941
box-folder 2 (box)
Container 65 (folder)

Two Balde Propeller at High Forward Speed--Report

Unit Date ca. 1941, 1944
box-folder 2 (box)
Container 66 (folder)

Sub-subseries iii: Bell P-39

folder 4 (oversize)

Bell Cuff Design: P-39--Graphs/Tables

Unit Date n.d.
box-folder 2 (box)
Container 67 (folder)

Bell: P-39 (H.S.T. Tests)-- Calculations/Drawings/Notes/Photographs

Unit Date 1942, n.d.
box-folder 2 (box)
Container 68 (folder)

Sub-subseries iv: XA-26

XA-26: Propellers and Drag Computations--Report**Unit Date** 1942, n.d.**box-folder** 2 (box)**Container** 69 (folder)**XA-26: Directions--Calculations/Notes****Unit Date** 1942, n.d.**box-folder** 2 (box)**Container** 70 (folder)**XA-26: Propeller and Drag Computations--Graphs/Tests****Unit Date** 1942**box-folder** 2 (box)**Container** 71 (folder)**XA-26: Propeller and Drag Computations--Notes****box-folder** 2 (box)**Container** 72 (folder)**Sub-subseries v: XSB2D-1 Propeller****Douglas XSB2D-1: Propeller Tests 210 and 211--Data/Graphs/Summary****Unit Date** 1942, n.d.**box-folder** 2 (box)**Container** 73 (folder)**XSB2D-1: Fuel Flow Data-- Tables****Unit Date** 1942, n.d.**box-folder** 2 (box)**Container** 74 (folder)**XSB2D-1: Tests and Calculations Relative to the State of Air in the Test Section-- Calculations/Data/Graphs****Unit Date** 1942, n.d.**box-folder** 2 (box)**Container** 75 (folder)**XSB2D-1: Old Baffels--Calculations/Notes****Unit Date** 1942**box-folder** 2 (box)**Container** 76 (folder)**XSB2D-1: Old and New Baffels(Obsolete Curves)--Graphs/Notes****box-folder** 2 (box)**Container** 77 (folder)**XSB2D-1: Engine Correlations and Preliminary Analysis--Graphs/Notes****box-folder** 2 (box)**Container** 78 (folder)**Flight Information Tables****Unit Date** n.d.**box-folder** 2 (box)**Container** 79 (folder)**Sub-subseries vi: Goldstein and Blade Theory****Ideal Propeller Efficiency: Propeller Design Data-- Clark-Y/Goldstien****Unit Date** 1940-1942, n.d.**box-folder** 3 (box)**Container** 1 (folder)**Goldstien Vortex Theory: Elemental Efficiency-- Figures/Graphs****Unit Date** 1942**box-folder** 3 (box)**Container** 2 (folder)**Goldstien Design and Aircraft Propeller Design--Calculations/Notes****Unit Date** 1942, n.d.**box-folder** 3 (box)**Container** 3 (folder)**Blade Element Theory: Goldstien Vortex & Dual Rotation--Calculations/Graphs/Notes****Unit Date** 1942-1944, n.d.**box-folder** 3 (box)**Container** 4 (folder)**Keywords**

Quarles, L. R.

Goldstien Correction Factor for Vortex Blade Theory--Graphs**Unit Date** 1942-1943**box-folder** 3 (box)**Container** 5 (folder)

Glauert Propeller: Data Corrections due to Wind Tunnel Inference--Graphs/Notes

Unit Date 1942, n.d.

box-folder 3 (box)

Container 6 (folder)

Propeller Maximum Thickness: Typical Distribution--Figures

Unit Date 1942

box-folder 3 (box)

Container 7 (folder)

Course Roll--Aircraft Propellers

Unit Date 1942, 1945, n.d.

box-folder 3 (box)

Container 8 (folder)

Sub-subseries vii: Pratt and Whitney R 2800 Engine

R 2800-27: Engine Friction Tests

Unit Date 1943, n.d.

box-folder 3 (box)

Container 9 (folder)

R2800 Pratt and Whitney Engine-- Friction, Horsepower, and Heat Balance Data

Unit Date 1943

box-folder 3 (box)

Container 10 (folder)

Keywords

Bierman, David

R2800 Correlation-- Figures 16- 18

Unit Date 1943

box-folder 3 (box)

Container 11 (folder)

R 2800 Heat Balance Charts-- Figures/Notes/Reports

Unit Date 1944, n.d.

box-folder 3 (box)

Container 12 (folder)

Curtis-Wright Corporation: Propeller Division Charts

Unit Date 1943-1944

box-folder 3 (box)

Container 13 (folder)

Bureau of Standards: Wind Tunnel Fan-- Drawings/Notes

Unit Date 1943, n.d.

box-folder 3 (box)

Container 14 (folder)

Propeller Wind Tests--Reports

Unit Date 1943, n.d.

box-folder 3 (box)

Container 15 (folder)

Negative Thrust Considerations-- Calculations/Figures

Unit Date 1943

box-folder 3 (box)

Container 16 (folder)

Rotating Mercury Seal: Pressure Transfer Device--Notes

Unit Date 1943, 1945, n.d.

box-folder 3 (box)

Container 17 (folder)

Power Stability of Three Polar Variables--Calculations/Graphs/Notes

Unit Date 1944-1946, n.d.

box-folder 3 (box)

Container 18 (folder)

NACA--ESMDT Course--Propeller Notes

Unit Date 1945, n.d.

box-folder 3 (box)

Container 19 (folder)

Propeller Symbols--Figures/Index

Unit Date 1945

box-folder 3 (box)

Container 20 (folder)

Turbine Driven Propeller--Notes**Unit Date** 1945**box-folder** 3 (box)**Container** 21 (folder)**Propeller Symbols--Index/Negatives/Tables****Unit Date** 1945-1946**box-folder** 3 (box)**Container** 22 (folder)**Sub-subseries viii: Pusher Propeller****Vibratory Stress--Calculations/Data/Graphs/Notes****Unit Date** 1945-1946, n.d.**box-folder** 3 (box)**Container** 23 (folder)**Pusher Propeller: Blade Three Vibratory Stress(200 mph)--Graphs/Notes/Tables****Unit Date** 1946, n.d.**box-folder** 3 (box)**Container** 24 (folder)**Pusher Propeller: Blade Three Vibratory Stress (300mph)-- Graphs/Tables****box-folder** 3 (box)**Container** 25 (folder)**Pusher Propeller: Blade Three Vibratory Stress--With Flutter****Unit Date** 1946, n.d.**box-folder** 3 (box)**Container** 26 (folder)**Sub-subseries ix: Sweptback Propeller****" Calculation of Space Locus for Blade Section Centeroid of Swept Propeller"--Figures/Report****Unit Date** 1946, n.d.**box-folder** 3 (box)**Container** 27 (folder)**Calculated Sweptback Propeller Efficiency--Conference Chart****Unit Date** 1946, n.d.**box-folder** 3 (box)**Container** 28 (folder)**Sweptback Propeller Structural Analysis-- Graphs/Notes****Unit Date** 1946, n.d.**box-folder** 3 (box)**Container** 29 (folder)**Method of Reducing Propeller Stress and Vibration****Unit Date** 1946-1947**box-folder** 3 (box)**Container** 30 (folder)**Pressure Distribution on Rotating Propeller--Graphs/Notes****Unit Date** 1947-1948**box-folder** 3 (box)**Container** 31 (folder)**University Conference On Aerodynamics--A Review of Propeller Theory****Unit Date** 1948**box-folder** 3 (box)**Container** 32 (folder)**Wind Tunnel Fan Design(Lift Coefficient and Alpha Corrections due to Solidity)****Unit Date** 1948**box-folder** 3 (box)**Container** 33 (folder)**Sub-subseries x: Slotted Test Section****Slotted Test Section: Obsolete Computations--Calculations/Data****Unit Date** 1948, n.d.**box-folder** 3 (box)**Container** 34 (folder)**Slotted Test Section--Choking Speed, Re-entrance Area Limitation****Unit Date** 1948**box-folder** 3 (box)**Container** 35 (folder)

Slotted Test Section: One Dimensional Analysis-- Calculations/Graphs

Unit Date 1948, 1956, n.d.

box-folder 3 (box)

Container 36 (folder)

Slotted Test Section: Viscous Flow at Slot Entrance--Calculations/Drawings/Graphs

Unit Date 1949, n.d.

box-folder 3 (box)

Container 37 (folder)

Ring Vortex--Calculations/Drawings

Unit Date 1949, n.d.

box-folder 3 (box)

Container 38 (folder)

"Propeller Inflow Corrections at High Subsonic Mach Numbers"-- Calculations/Report

Unit Date 1949, n.d.

box-folder 3 (box)

Container 39 (folder)

Sub-subseries xi: Propeller Induced Camber

Induced Angle Propeller--Calculations/Drawings/Notes

Unit Date 1949, n.d.

box-folder 3 (box)

Container 40 (folder)

Propeller Induced Camber Tests [(10/3049/03), (10/3066/03), (10/3090/03), (16/3090/03)]-- Data/Graphs

Unit Date 1949-1950, n.d.

box-folder 3 (box)

Container 41 (folder)

Propeller Induced Camber--Drafts/Notes/Reports

Unit Date 1950, n.d.

box-folder 3 (box)

Container 42 (folder)

Propeller Induced Camber-- Notes

Unit Date 1950, n.d.

box-folder 3 (box)

Container 43 (folder)

Propeller Induced Camber--Calculations/Notes

Unit Date 1950, n.d.

box-folder 3 (box)

Container 44 (folder)

Propeller Design for Constant Centrifugal Stress--Report

Unit Date 1950

box-folder 3 (box)

Container 45 (folder)

Submarine Propulsive System--Figures/Report

Unit Date 1950, 1959, n.d.

box-folder 3 (box)

Container 46 (folder)

Langley 2000 Horse Power Propeller--Photographs

Unit Date ca. 1952

box-folder 3 (box)

Container 47 (folder)

Tripple Rotart Joint: Model String Support--Calculations/Drawings/Notes/Report

Unit Date 1952-1953, n.d.

box-folder 3 (box)

Container 48 (folder)

Sub-subseries xii: Ski Wing

Ski Wing--Drawings/Proposal

Unit Date 1952, n.d.

box-folder 3 (box)

Container 49 (folder)

Ski Wing Analysis-- Photographs/Proposal

Unit Date 1953

box-folder 3 (box)

Container 50 (folder)

Ski Wing: Tests-- Graph/Photographs

Unit Date 1954
box-folder 3 (box)
Container 51 (folder)

Propeller Blade Vibration Research

Unit Date 1954
box-folder 3 (box)
Container 52 (folder)

Corotational Tangent Rotors--Calculations/Drawings/Notes

Unit Date 1955
box-folder 3 (box)
Container 53 (folder)

Sub-subseries xiii: Jet Exit Research

Nacelle Aspect Ratio Coefficients: Drag--Calculations/Graphs/Notes

box-folder 3 (box)
Container 54 (folder)

TFX Jet Exit Research-- Calculations/Drawings/Notes

Unit Date 1955-1960, n.d.
box-folder 3 (box)
Container 55 (folder)

Jet Exit Research--Analysis/Notes

Unit Date 1957, n.d.
box-folder 3 (box)
Container 56 (folder)

Jet Exit Research: Air Powered Nacelle (Tri Tunnel Model)-- Notes/Report

Unit Date 1963, n.d.
box-folder 3 (box)
Container 57 (folder)

Summary of Research on Jet Exit Installations--Report

Unit Date 1966, 1971
box-folder 3 (box)
Container 58 (folder)

Jet Exit Research: Exhaust Nozzle VTOL Models

Unit Date 1971, n.d.
box-folder 3 (box)
Container 59 (folder)

Jet Over Wing Propulsion: Nacelle-- Drawings/Purchase Request

Unit Date 1971
box-folder 3 (box)
Container 60 (folder)

Sub-subseries ivx: Jet Noise Suppression

Jet Noise Suppression--Notes/Report

Unit Date 1956
box-folder 3 (box)
Container 61 (folder)

Jet Noise Suppression-- Calculations/Notes

Unit Date 1956-1958, n.d.
box-folder 3 (box)
Container 62 (folder)

Multiple Annular Jet Noise Suppressor

Unit Date 1957-1959
box-folder 3 (box)
Container 63 (folder)

Jet Noise Suppression--Refrences

Unit Date 1971, n.d.
box-folder 3 (box)
Container 64 (folder)

Flow Entrainment: Circular Jet-- Calculations/Data/Figures/Notes

Unit Date 1956
box-folder 3 (box)
Container 65 (folder)

Propeller Static: Ideal Effect Coefficient-- Graphs/Notes

Unit Date 1956
box-folder 3 (box)
Container 66 (folder)

XP6M-1 Problems--Analysis**Unit Date** 1957, n.d.**box-folder** 3 (box)**Container** 67 (folder)**Valveless Pulse Jet--Notes/Photographs****Unit Date** 1960, n.d.**box-folder** 3 (box)**Container** 68 (folder)**Aerodynamics of Wind Tunnel Fan (TN 820)--Notes****Unit Date** 1961, 1972**box-folder** 3 (box)**Container** 69 (folder)**Supersonic Propeller Efficiency -- Data/Graphs****Unit Date** 1962**box-folder** 3 (box)**Container** 70 (folder)**Apollo Escape Craft-- Drawings/Notes****Unit Date** 1962, n.d.**box-folder** 3 (box)**Container** 71 (folder)**TRECOM Hiller Data: Helicopter Blade Tip Mounted Turbojet--Comments/Notes****Unit Date** 1964**box-folder** 3 (box)**Container** 72 (folder)**Sub-subseries vx: Multiple Cell Toridal Vortex Tube****folder** 10 (oversize)**Multiple Cell Toridal Vortex Tube--Negative Figures (1,2,4,7,8)****Unit Date** 1964**box-folder** 3 (box)**Container** 73 (folder)**Multiple Cell Toridal Vortex Tube--Patent Transparencies****Unit Date** 1964**box-folder** 3 (box)**Container** 74 (folder)**Multiple Cell Toridal Vortex Tube--Patent Manuscript****Unit Date** 1964**box-folder** 3 (box)**Container** 75 (folder)**Multiple Cell Toridal Vortex Tube--Patent Figures (1-8)****Unit Date** 1964**box-folder** 3 (box)**Container** 76 (folder)**Multiple Cell Toridal Vortex Tube--Patent Figure 1****Unit Date** 1964**box-folder** 3 (box)**Container** 77 (folder)**Multiple Cell Toridal Vortex Tube--Patent Figure 2****Unit Date** 1964**box-folder** 3 (box)**Container** 78 (folder)**Multiple Cell Toridal Vortex Tube--Patent Figure 4****Unit Date** 1964**box-folder** 3 (box)**Container** 79 (folder)**Multiple Cell Toridal Vortex Tube--Patent Figure 7****Unit Date** 1964**box-folder** 3 (box)**Container** 80 (folder)**Multiple Cell Toridal Vortex Tube--Patent Figure 8****Unit Date** 1964**box-folder** 3 (box)**Container** 81 (folder)**Multiple Cell Toridal Vortex Tube--Patent****Unit Date** 1964**box-folder** 3 (box)**Container** 82 (folder)

Patent Copy--Multiple Cell Toridal Vortex Tube

Unit Date 1964
box-folder 3 (box)
Container 83 (folder)

Vortex Tube Model--Calculations/Notes/Tables (William R. Bobo)

Unit Date 1964-1965, n.d.
box-folder 3 (box)
Container 84 (folder)

Surge Control Valve--Graphs/Notes/Report

Unit Date 1965, n.d.
box-folder 3 (box)
Container 85 (folder)

XC-142A Propeller--Calculations/Graphs/Notes

Unit Date 1965, 1966, n.d.
box-folder 3 (box)
Container 86 (folder)

Subseries C: Nozzles and Nozzle Research

folder 7 (oversize)

Scope and Contents

Materials from this subseries are in Box 4 (folders listed below) and in oversize Folder 7.

Nozzle Installation and Pressure Ratio--Figures(1, 5-8)

Unit Date n.d.
box-folder 4 (box)
Container 1 (folder)

Mechanical Sink: Supersonic Nozzle-- Notes/Proposal

Unit Date 1947-1961
box-folder 4 (box)
Container 2 (folder)

Dual Flow Nozzle--Report (copies)

Unit Date 1948
box-folder 4 (box)
Container 3 (folder)

Dual Passage Nozzle-- Figures/Report

Unit Date 1948
box-folder 4 (box)
Container 4 (folder)

Sub-subseries i: Perforated Difusser Nozzle

Perforated Diffuser Nozzle-- Photographs

Unit Date n.d.
box-folder 4 (box)
Container 5 (folder)

Perforated Difusser Nozzle-- Notes/Report

Unit Date 1953, 1957, n.d.
box-folder 4 (box)
Container 6 (folder)

Sub-subseries ii: Bifurcated Rotary Joint

Biofurcated Rotary Joint: "Sting"---Analysis/Notes

Unit Date 1952, 1954, n.d.
box-folder 4 (box)
Container 7 (folder)

Bifurcated Rotary Joint Support-- Wind Tunnel Models

Unit Date 1954
box-folder 4 (box)
Container 8 (folder)

Bifurcated Rotary Joint Support for Wind Tunnel Models-- Patent Application

Unit Date 1954-1958
box-folder 4 (box)
Container 9 (folder)

Sub-subseries iii:Cascade Plug Nozzle

folder 5 (oversize)

Scope and Contents

Materials from this sub-subseries are in Box 4 (folders listed below) and in oversize Folder 5.

Figures(1-4, 6-7)--Ratio of Average Incompressible Turbulent skin Friction to Karman Schoenherr's Formula

Unit Date n.d.

box-folder 4 (box)

Container 10 (folder)

Nozzle Loss and Skin Friction-- Calculations/Data/Draft/Graph

Unit Date 1958, n.d.

box-folder 4 (box)

Container 11 (folder)

Cascade Plug Nozzle--Calculations/Drawings

Unit Date 1966, n.d.

box-folder 4 (box)

Container 12 (folder)

Cascade Plug Nozzle: Mixed Flow Nozzle Turbofan Propulsion Simulation with an Air Driven Model Engine-- Graph/Notes/Report

Unit Date 1969-1970, n.d.

box-folder 4 (box)

Container 13 (folder)

Cascade Plug Nozzle: Test 266 (Corrected and Obsolete)-- Data/Notes

Unit Date 1969-1972, n.d.

box-folder 4 (box)

Container 14 (folder)

Cascade Plug Nozzle--Report Outline

Unit Date 1971, n.d.

box-folder 4 (box)

Container 15 (folder)

Cascade Plug Nozzle--Photographs

Unit Date 1971, n.d.

box-folder 4 (box)

Container 16 (folder)

Cascade Plug Nozzle-- Report Draft

Unit Date 1971, n.d.

box-folder 4 (box)

Container 17 (folder)

Cascade Plug Nozzle Model II--Graphs/Notes/Report/Tables

Unit Date 1971-1972, n.d.

box-folder 4 (box)

Container 18 (folder)

Cascade Plug Nozzle--Notes/Tables

Unit Date 1971

box-folder 4 (box)

Container 19 (folder)

Cascade Plug Nozzle--Disclosure of Invention (NASA Case Number LAR 10951-1)

Unit Date 1971

box-folder 4 (box)

Container 20 (folder)

Cascade Plug Nozzle--Patent Copy

Unit Date 1971-1977

box-folder 4 (box)

Container 21 (folder)

Cascade Plug Nozzle: Model III--Calculations/Data

Unit Date 1972, n.d.

box-folder 4 (box)

Container 22 (folder)

Cascade Plug Nozzle:Model IV-- Calculations/Graphs/Notes

Unit Date 1972, n.d.

box-folder 4 (box)

Container 23 (folder)

Cascade Plug Nozzle--Manuscript

Unit Date 1972, n.d.

box-folder 4 (box)

Container 24 (folder)

Cascade Plug Nozzle: Model II Sketches

Unit Date 1972

box-folder 4 (box)

Container 25 (folder)

Cascade Plug Nozzle--Noise Measurements(E.p. McDavid)--Notes/Report

Unit Date 1972

box-folder 4 (box)

Container 26 (folder)

Cascade Plug Nozzle--Application For Patent

Unit Date 1973

box-folder 4 (box)

Container 27 (folder)

Cascade Plug Nozzle: Signed Copy-- Patent

box-folder 4 (box)

Container 28 (folder)

Cascade Plug Nozzle--Patent Plaque

Unit Date 1976

box-folder 4 (box)

Container 29 (folder)

Cascade Plug Nozzle--Patent

Unit Date 1976-1977

box-folder 4 (box)

Container 30 (folder)

Sub-subseries iv: Annular Nozzle Concave Central Base

Annular Nozzle : Concave Central Base--Notes/Report

Unit Date 1959, n.d.

box-folder 4 (box)

Container 31 (folder)

Annular Nozzle : Concave Central Base-- Patent Notes

Unit Date 1959

box-folder 4 (box)

Container 32 (folder)

Annular Nozzle : Concave Central Base-- Patent Manuscript

Unit Date 1959

box-folder 4 (box)

Container 33 (folder)

Annular Nozzle : Concave Plug Base Thrust-- Calculations/Graphs/Tables

Unit Date 1959, 1961, n.d.

box-folder 4 (box)

Container 34 (folder)

Annular Nozzle : Concave Central Base-- Patent Data

Unit Date 1959-1961

box-folder 4 (box)

Container 35 (folder)

Static Thrust on an Annular Jet Exit with a Concave Central Base--Notes/Report Draft

Unit Date 1960, n.d.

box-folder 4 (box)

Container 36 (folder)

Static Thrust of an Annular Jet Exit with a Concave Central Base-- Notes/Report

Unit Date 1960, n.d.

box-folder 4 (box)

Container 37 (folder)

Static Thrust of an Annular Jet Exit with a Concave Central Base--Report Copy

box-folder 4 (box)

Container 38 (folder)

Sub-subseries vi:Convergent Divergent Nozzle Ejector Performance and Charcteristics

Ejectors-- Calculations/Drawings/Notes

Unit Date n.d.

box-folder 4 (box)

Container 39 (folder)

Controlable Convergent Divergent Nozzle--Notes

Unit Date 1954-1956, n.d.

box-folder 4 (box)

Container 40 (folder)

Relationship of Flight Factors with Regards to Primary and Secondary Airflows or Ejectors--Calculations/Graphs/Notes

Unit Date 1965-1966, n.d.

box-folder 4 (box)

Container 41 (folder)

Ejector Performance with Secondary Ram Drag-- Calculations/Graphs/Notes**Unit Date** 1966**box-folder** 4 (box)**Container** 42 (folder)**Extension of Ejector Charts--Calculations/Graphs/Notes****Unit Date** 1966**box-folder** 4 (box)**Container** 43 (folder)**Sub-subseries v: Annular Nozzle with Semi-Toridal Base****Annular Nozzle with Semi-Toridal Concave Base--Calculations/ Drawings/Notes****Unit Date** 1961-1963, n.d.**box-folder** 4 (box)**Container** 44 (folder)**Transonic Thrust Characteristics of an Annular Nozzle with Semi-Toridal Concave Base--Notes/Draft****Unit Date** 1962-1963, n.d.**box-folder** 4 (box)**Container** 45 (folder)**Transonic Thrust and Drag Characteristics of an Annular Nozzle with Semi-Toridal Concave Base (Obsolete)--Draft****Unit Date** 1962-1963, n.d.**box-folder** 4 (box)**Container** 46 (folder)**Transonic Thrust and Drag Characteristics of an Annular Nozzle with Semi-Toridal Concave Base--Figures****Unit Date** 1962-1963, n.d.**box-folder** 4 (box)**Container** 47 (folder)**Transonic Thrust and Drag Characteristics of an Annular Nozzle with Semi-Toridal Concave Base--Notes/Report****Unit Date** 1962-1963, n.d.**box-folder** 4 (box)**Container** 48 (folder)**Transonic Thrust and Drag Characteristics of an Annular Nozzle with Semi-Toridal Concave Base--Conversions(Static to Dynamic)****Unit Date** 1962-1963, n.d.**box-folder** 4 (box)**Container** 49 (folder)**Sub-subseries vi: Exhaust Nozzle and Jet Nozzle Performance****Exhaust Nozzle and Jet Effects Research-- Figures/Photographs****Unit Date** 1996, n.d.**box-folder** 4 (box)**Container** 50 (folder)**Jet Nozzle-- Calculations/Notes****Unit Date** 1968**box-folder** 4 (box)**Container** 51 (folder)**Jet Nozzle Performance and Comparison--Notes/Calculations****Unit Date** 1969, n.d.**box-folder** 4 (box)**Container** 52 (folder)**Nozzle Thrust Coefficient-- Graphs****Unit Date** 1967, n.d.**box-folder** 4 (box)**Container** 53 (folder)**Sliding Block Nozzle--Calculations/Notes****Unit Date** 1968, n.d.**box-folder** 4 (box)**Container** 54 (folder)**Airframe Afterbody Configuration Thrust and Drag-- Analysis/Drawings/Notes****Unit Date** 1968-1969, n.d.**box-folder** 4 (box)**Container** 55 (folder)**Thrust Modulator Effectiveness in Reverse Thrust Mode--Calculations/Notes/Report****Unit Date** 1969, n.d.**box-folder** 4 (box)**Container** 56 (folder)

Comments on Analysis of Thrust and Drag Measurements on Airframe and Afterbody Nozzle Configurations

Unit Date 1969
box-folder 4 (box)
Container 57 (folder)

Mixed Flow Nozzle Turbofan Propulsion Simulation with an Air Driven Model Engine--Calculations/Data/ Notes

Unit Date 1969-1970, n.d.
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Container 58 (folder)

Mixed Flow Nozzle Turbofan Propulsion Simulation with an Air Driven Model Engine-- Draft

Unit Date 1970-1971, n.d.
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Miscellaneous Nozzle Notes

Unit Date 1967-1970, n.d.
box-folder 4 (box)
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Subseries D: Research Projects

Variable Information: Sucession of Coordinates

Unit Date n.d.
box-folder 5 (box)
Container 1 (folder)

Study on Particle Behavior--Calculations/Drawings/Notes

Unit Date 1937-1938, n.d.
box-folder 5 (box)
Container 2 (folder)

Sub-subseries i: Compressibility Research

Energy Relations and Compressible Flow--Notes/Report Draft

Unit Date n.d.
box-folder 5 (box)
Container 3 (folder)

Bernouilli's Equation for Compressible Fluids--Calculations/Graphs/Notes

Unit Date 1939, n.d.
box-folder 5 (box)
Container 4 (folder)

Analysis of Compressibility Loss: Propeller 3155-6--Graphs/Tables

Unit Date 1941, n.d.
box-folder 5 (box)
Container 5 (folder)

Compressible Flow: Propeller Efficiency-- Drawings/Graphs/Notes

Unit Date 1941, n.d.
box-folder 5 (box)
Container 6 (folder)

16-000 Series Compressibility--Calculations/Figures

Unit Date 1941, n.d.
box-folder 5 (box)
Container 7 (folder)

Compressibility Research: Estimation of Propeller Loss of Efficiency-- Data/Graphs/Report

Unit Date 1941
box-folder 5 (box)
Container 8 (folder)

Compressibility Loss: P-60A Airplane Propeller-- Graphs/Tables

Unit Date 1941
box-folder 5 (box)
Container 9 (folder)

Compressible Flow: Tube of Varying Cross Section--Calculations/Graphs/Notes

Unit Date 1942-1944, n.d.
box-folder 5 (box)
Container 10 (folder)

Compressible Flow: Thermal Deicing Propeller-- Calculations/Graphs/Reports

Unit Date 1943-1944, n.d.
box-folder 5 (box)
Container 11 (folder)

Compressible Flow: Jet Reactions-- Calculations/Notes

Unit Date 1954
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Rocket Fuel Data

Unit Date 1958, n.d.
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Container 13 (folder)

Variable Sweep--Drawing/Notes

Unit Date 1960, n.d.
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Sub-subseries ii: Jet Interference Program

Jet Interference Program: Energy Relations of Compressible Flow--Calculations/Notes

Unit Date 1965, n.d.
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Container 15 (folder)

Jet Interference Program--Notes/Proposal

Unit Date 1965
box-folder 5 (box)
Container 16 (folder)

Jet Interference Program: CCO Interfacing--Photographs/Report

Unit Date 1965, n.d.
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Container 17 (folder)

Pressure Belt Analysis-- Drawings/Graphs/Photographs

Unit Date 1942, n.d.
box-folder 5 (box)
Container 18 (folder)

Turbo Jet Engines: Engine Comparison Tables

Unit Date 1947
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Container 19 (folder)

Thin Wing Buffetting--Notes/Report

Unit Date 1953, n.d.
box-folder 5 (box)
Container 20 (folder)

Mach with Respect to HP-- Graphs/Notes

Unit Date 1954-1955, n.d.
box-folder 5 (box)
Container 21 (folder)

Projectiles in Elliptical Orbit Near Earth--Calculations/Drawings/Notes

Unit Date 1955
box-folder 5 (box)
Container 22 (folder)

Sub-subseries iii: Boundary Layer Control

"Effect of Boundary Layer Control and Design Parameters on Propeller Performance at Zero Advance (BWC)

Unit Date n.d.
box-folder 5 (box)
Container 23 (folder)

Boundary Layer Control: Figures 1-13

Unit Date n.d.
box-folder 5 (box)
Container 24 (folder)

Boundary Layer Losses in Diffuser: Attempted Estimate

Unit Date ca. 1955
box-folder 5 (box)
Container 25 (folder)

The Effect of Boundary Layer Control and Design Parameters on Propeller Performance at Zero Advance--Draft

Unit Date 1956
box-folder 5 (box)
Container 26 (folder)

Constant Pressure Injector: Equations-- Graphs/Tables

Unit Date 1956, n.d.

box-folder 5 (box)

Container 27 (folder)

Regenerative Decomposition Unit-- Notes

Unit Date 1959, n.d.

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Container 28 (folder)

Saturn C-5 Three Stage Escape Vehicle: Stability and Drag Characteristics--Report

Unit Date 1962, n.d.

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Container 29 (folder)

Rocket Thrust-- Calculations/Notes

Unit Date 1963-1964

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Container 30 (folder)

Turbine Air Compression--Calculations/Graphs/Notes

Unit Date 1965, n.d.

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Container 31 (folder)

V/STOL: Site Plan--Figures/Notes

Unit Date 1966, n.d.

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Container 32 (folder)

Oscillating Office Pump--Calculations/Model/Notes/Photographs

Unit Date 1967, n.d.

box-folder 5 (box)

Container 33 (folder)

Double Vortex Pressure Box--Data/Drawings

Unit Date 1967, n.d.

box-folder 5 (box)

Container 34 (folder)

Miscellaneous Flight Characteristics-- Calculations

Unit Date ca. 1967

box-folder 5 (box)

Container 35 (folder)

Force on a Rankine Ovid--Calculations/Notes

Unit Date ca. 1968

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Container 36 (folder)

Sub-subseries iv: Air Breathing Propulsions Systems**Air Breathing Propulsion Systems**

Unit Date 1968, n.d.

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Container 37 (folder)

Air Breathing Propulsion Systems--Report

Unit Date 1968

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Container 38 (folder)

Sub-subseries v: Swept Wing**Swept Wing Deflected: Jet Lift Propulsion Systems--Calculations/Data/Drawings/Proposal**

Unit Date 1968-1969, n.d.

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Container 39 (folder)

Swept Wing: Inboard Jet Flight--Calculations/Figures/Notes/ Proposal

Unit Date 1968-1969

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Sub-subseries vi: Power on Polars**Trimmed Power on Polars: Wind Tunnel Model--Report Draft**

Unit Date 1970, n.d.

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Trimmed Power on Polars: Wind Tunnel Model-- Report

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Subseries E: 16 Foot Transonic Tunnel and Research

Transonic Tunnel: Test Section Air Removal-- Notes

Unit Date n.d.

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Container 43 (folder)

Transonic Tunnel Tasks: T0282, T0284

Unit Date n.d.

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Container 44 (folder)

Transonic Tunnel: Mass Flow Calculations

Unit Date n.d.

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Container 45 (folder)

Transonic Tunnel Energy Relation for Compression Box--Calculation/Graph

Unit Date n.d.

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Container 46 (folder)

16 ft Transonic High Speed Tunnel Section Information: Critical Speed--Figures

Unit Date n.d.

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Container 47 (folder)

"The 16 ft. Transonic Wind Tunnel Calibration with Test Section Air Removal"--Report Draft

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16 ft. Transonic Tunnel-- Photographs

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"The 16 ft. Transonic Wind Tunnel Calibration with Test Section Air Removal"-- Corrected Pages

Unit Date n.d.

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Container 50 (folder)

Transonic Tunnel:Transfer of Pitching Moments-- Report

Unit Date 1936, 1940

box-folder 5 (box)

Container 51 (folder)

Corrections to 16 ft. Transonic Wind Tunnel Air Flow Pressure-- Figures/ Graphs

Unit Date 1936, 1942, n.d.

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Transonic Tunnel: Propeller Research-- Calculations/Drawings/Graphs/ Notes

Unit Date 1936-1945, n.d.

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Container 53 (folder)

Transonic Tunnel: Jet Propulsion Research-- Graphs/Notes

Unit Date 1937, 1942, 1944, n.d.

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Container 54 (folder)

Transonic Tunnel: Velocity Survey Ahead of Fans

Unit Date 1941-1942, n.d.

box-folder 5 (box)

Container 55 (folder)

Transonic Tunnel Calibrations-- Calculations/Logs/Notes

Unit Date 1941-1943, n.d.

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Transonic Tunnel: Rear Fan-- Torsional Rigidity of Blades

Unit Date 1942, n.d.

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Transonic Tunnel: Study and Alteration to the Wind Tunnel Fans--Graphs/Notes

Unit Date 1942

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Transonic Tunnel: Rear Fan Adaptation of M.F. 7 Blade Tunnel Design

Unit Date 1942

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Container 59 (folder)

Keywords

Messick, Mr.

Keffer, Percy

Bierman, David

Transonic Tunnel: 1940 Reports

Unit Date 1942-1949

box-folder 5 (box)

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Transonic Tunnel: Fan Blade Vibration

Unit Date 1943, n.d.

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Container 61 (folder)

Keywords

Edwards, H. B.

Transonic Tunnel: Front Fan Blade Vibration

Unit Date 1943, n.d.

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Transonic Tunnel: Rear Fan Blade Vibration--Graphs/Tables

Unit Date 1943, n.d.

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Transonic Tunnel: LMAL Propeller Dyanometer Tests--Figures

Unit Date 1944

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16 ft. Transonic Tunnel: NACA-- Photographs

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16 Ft. Transonic Tunnel: Operational Data--Graphs

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S.A.E.: Propeller Shafts and Cone Dimensions-- Blueprints

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Transonic Tunnel: Air Removal Section--Figure/Graphs/Notes

Unit Date 1946-1965, n.d.

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Transonic Tunnel: Two-Dimensional Profile Drag--Calculations Photographs

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Transonic Tunnel: Propeller Dynamometer Equipment-- Graphs/Report

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Transonic Tunnel: Propeller Induced Angle of Attack-- Graphs/Notes/Tables

Unit Date 1949, n.d.

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Transonic Tunnel and Corson-- Photographs

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Container 72 (folder)

Transonic Tunnel: 1950-59 Reports**Unit Date** 1950-1959**box-folder** 5 (box)**Container** 73 (folder)**Transonic Tunnel: Horsepower vs. RPM Tests-- Graphs/Notes/Tables****Unit Date** 1951-1952, 1957, n.d.**box-folder** 5 (box)**Container** 74 (folder)**Transonic Tunnel: Mass Flow (Pressure Rise through Fans)--Graphs****Unit Date** 1952**box-folder** 5 (box)**Container** 75 (folder)**Transonic Tunnel: Turbulence Measurements--Graphs****Unit Date** 1952**box-folder** 5 (box)**Container** 76 (folder)**Transonic Tunnel: Test Section--Graphs/Notes****Unit Date** 1953**box-folder** 5 (box)**Container** 77 (folder)**Transonic Tunnel: Loss--Notes****Unit Date** 1954-1955, n.d.**box-folder** 5 (box)**Container** 78 (folder)**Transonic Tunnel:Test F-105 (Old Model)-- Drawings/Graphs/Notes****Unit Date** 1954-1957, n.d.**box-folder** 5 (box)**Container** 79 (folder)**Transonic Tunnel--Notes****Unit Date** 1955-1956, n.d.**box-folder** 5 (box)**Container** 80 (folder)**Transonic Tunnel: Wind Tunnel to be Operated with Transonic Tunnel Air Removal Compressor-- Calculations/Drawings/Notes/ Proposal****Unit Date** 1956, n.d.**box-folder** 5 (box)**Container** 81 (folder)**Transonic Tunnel: Supersonic Addition--Calculations/Notes****Unit Date** 1956, n.d.**box-folder** 5 (box)**Container** 82 (folder)**Transonic Tunnel:Calibration with Test Section Air Removal --Calculations/Graphs/Notes****Unit Date** 1956-1973, n.d.**box-folder** 5 (box)**Container** 83 (folder)**Transonic Tunnel (Small) to be Powered by Compressor for B-L Removal****Unit Date** 1957, n.d.**box-folder** 5 (box)**Container** 84 (folder)**Transonic Tunnel--Photographs****Unit Date** 1957, n.d.**box-folder** 5 (box)**Container** 85 (folder)**Transonic Tunnel: Air Removal System****Unit Date** 1957-1960**box-folder** 5 (box)**Container** 86 (folder)**Transonic Tunnel: RML 52E01-- Shaft Torsion, Dampers, and Humidity****box-folder** 5 (box)**Container** 87 (folder)**Transonic Tunnel: Compressor Analysis Data****Unit Date** 1958-61, n.d.**box-folder** 5 (box)**Container** 88 (folder)

Transonic Tunnel: Ground Rules/ Position Request-- Notes

Unit Date 1960, n.d.

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Transonic Tunnel: 1960-69 Reports

Unit Date 1960-1969

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Container 90 (folder)

Transonic Tunnel: Wind Tunnel Calibration With Test Section Air Removal

Unit Date 1961-1973, n.d.

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Transonic Tunnel: Size Classifications

Unit Date ca. 1962

box-folder 5 (box)

Container 92 (folder)

Transonic Tunnel: Balance List Completed

Unit Date 1962, n.d.

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Transonic Tunnel: Miscellaneous Facilities

Unit Date ca. 1962

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Transonic Tunnel--Figures/Graphs/Notes

Unit Date 1962

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Container 95 (folder)

Transonic Tunnel: Wall Divergence--Graphs/Notes/Reports

Unit Date 1963-1964, n.d.

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Container 96 (folder)

Transonic Tunnel: Wind Tunnel Test Section Air Removal--Figures/Graphs

Unit Date 1963-1973, n.d.

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Transonic Tunnel: Flight, Thrust, and Drag

Unit Date 1964-1966, n.d.

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Transonic Tunnel: Flight and Aerodynamic Analysis

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Transonic Tunnel:Subsonic WindTunnel Drag-- Calculations/Notes

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Transonic Tunnel: NASA Photographs

Unit Date 1967, n.d.

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Container 3 (folder)

Sir Frank Whittle: Visit at Langley-- Photographs

Unit Date 1967

box-folder 6 (box)

Container 4 (folder)

Transonic Tunnel: Cooling by Direct Integration of Cool Dry Air-- Calculations/Graphs/Notes

Unit Date 1967-1979, n.d.

box 6

Container 5 (folder)

Transonic Tunnel:Wind Tunnel Test Section--Data/Graphs/Notes

Unit Date 1969-1974, n.d.

box 6

Container 6 (folder)

Transonic Tunnel: 1970-1972 Reports

Unit Date 1970-1972

box 6

Container 7 (folder)

"Transonic Wind Tunnel Calibration with Test Section Air Removal"--Outline

box-folder 6 (box)

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Transonic Tunnel: Air Stream Turbulence

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Transonic Tunnel:Staff List

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Transonic Tunnel Calibration Report--Edits/Outline

Unit Date 1973, n.d.

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Container 11 (folder)

" 16' Transonic Wind Tunnel Calibration with Test Section Air Removal"--Blue Card Editorial

Unit Date 1973, n.d.

box-folder 6 (box)

Container 12 (folder)

"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal"-- Tables 1-8

Unit Date 1973

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Container 13 (folder)

"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal"-- Report by BWC, Runckle, and Igoe

Unit Date 1973

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Container 14 (folder)

"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal"-- Figures 1-48

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Container 15 (folder)

16' Transonic Tunnel Calibration Report: Edited Copy

Unit Date 1973

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Container 16 (folder)

16' Transonic Tunnel Calibration: Edited Copy with Notes--Report Draft

Unit Date 1973

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Container 17 (folder)

"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal"-- Manuscript

Unit Date 1973

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"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal"-- Unedited

Unit Date 1973

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"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal"-- Draft by BWC, Jack F.Runckle, and William B.Igoe

Unit Date 1973

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"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal"-- Edits with Table of Contents

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"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal"-- with Corrections

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"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal"-- Report

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"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal"-- Tables

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"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal"-- Figures/Photographs

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"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal"-- Copy 1

Unit Date 1973
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Transonic Tunnel: Testing Information (Donald L. Maiden)

Unit Date 1973
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Wind Tunnel Design Theory--Calculations/Notes/Tables

Unit Date 1976, n.d.
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Transonic Tunnel: Internal Photographs

Unit Date 1984
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Series V: Publications, Journals, and Reports

Unit Date 1934-1982

Subseries A: Publications

folder 2 (oversize)

Scope and Contents

Materials from this subseries are in Boxes 6-9 (folders listed below) and in oversize Folder 2.

"60,000 HP Fan Drive For the 16-Foot Tunnel"

Unit Date 1948
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"8th Intersociety Energy Conservation Engineering Conference Proceedings"

Unit Date 1973
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Container 31 (folder)

"Aircraft Power Plant"--Patent

Unit Date 1937
box-folder 6 (box)
Container 32 (folder)

"Air Craft Propulsion Confrence"--Figure Reprints

Unit Date 1970
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"Becco 90% and 98% Hydrogen Peroxide: Properties, Records and Potential in the Propulsions Field"

Unit Date 1961
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Container 34 (folder)

"Becco: Hydrogen Peroxide Physical Properties Book"

Unit Date 1955
box-folder 6 (box)
Container 35 (folder)

"Commercial Air Transportation Developments in the Next Three Decades" by H.W. Withington

Unit Date 1978
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"High Bypass Lift/Cruise Fan: The State of the Art"

Unit Date 1965
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"Concentrated Hydrogen Peroxide"

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"Concentrated Hydrogen Peroxide H2O2 Properties, Uses, Storage, and Handling"

Unit Date 1959
box-folder 6 (box)
Container 39 (folder)

"Encyclopedia of Chemical Technology: Manganese Compounds to Nitrophenols"

Unit Date ca. 1967, 1976
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Container 40 (folder)

"The Energy Dilemma and its Impact on Transportation"

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"Exhaust Nozzles Lift Engines"

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"Field Handling of Concentrated Hydrogen Peroxide"

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"Fuel Conservation Prop-Fan: Propulsion for High Speed Aircraft"

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"Investigation of the Use of Meathonal-Gasoline Blends"

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"Physical Constants and Conservation Factors Revised"

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"Performance Matching to the Propulsion System--S.A.E."

Unit Date 1968
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Container 47 (folder)

"Selecting Construction Steels for Aircraft Design" by C.L. Hilbert

Unit Date 1956
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Container 48 (folder)

"A Short Method for Evaluating Determinants and Solving for Systems of Linear Equations with Real or Complex Coefficients"

Unit Date 1941
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Container 49 (folder)

"Supersonic Systems Exhaust Nozzle Configuration Study" by W.A. Fasching and H.A. Carl

Unit Date 1962
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Container 1 (folder)

"Supersonic Transport Mach +-2.5: Annular Exhaust System Configuration Study for Turbofan Engine" by W.A. Fasching

Unit Date 1963
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Container 2 (folder)

"Supersonic Transport Propulsion Considerations"

Unit Date 1963
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"Theoretical Analysis of Oscillations of a Towed Cable"

Unit Date 1949
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"TJ70 Engine Considerations for Supersonic Transport"

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"Twelfth Southeastern Seminar on Thermal Sciences"

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Subseries B: Reports

Author Search--Research Notes

Unit Date n.d.
box-folder 7 (box)
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"16 Foot Transonic Wind Tunnel Calibration with Test Section Air Removal" -- George Strokes Editorial

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"Aerodynamic Interface Between Exhaust System and Airframe"

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"Aerodynamic Performance of the 16-Foot Transonic Tunnel Air Removal Compressor"

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"Aerodynamic Reduction of Static-Pressure Sensing Errors for Aircraft at Subsonic, Near Sonic, and Low Super Sonic Speed"

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"The Aerodynamics of High Speed Propellers"

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"The Aerodynamics of a Wind Tunnel Fan"

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"Agricultural Alcohol in Automotive Fuel : Nebraska GASOHOL"

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Container 14 (folder)

"Air Flow and Power Characteristics of the Langley 16 Foot Transonic Tunnel with Slotted Test Section"

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"Analysis of Heat and Compressibility Effects in Internal Flow Systems and High-Speed Tests of a Ram Jet System "

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Container 16 (folder)

"Analysis of Propeller Efficiency Losses Associated with Heated-Air Thermal Deicing "

Unit Date 1945
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"Applications of Modern Hydrodynamics to Aeronautics"

Unit Date n.d., 1972
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"Calibration of the Langley 16-Foot Transonic Tunnel With Test Section Air Removal"--Personal Copy

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"Calibration of the Langley 16-Foot Transonic Tunnel With Test Section Air Removal "

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"Calibration of the Langley 16-Foot Transonic Tunnel with Test Section Air Removal"

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"Characteristics of the Langley 8-Foot Transonic Tunnel with Slotted Test Section"

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"Check Calibration of the ADEC 16-Ft Transonic Tunnel"

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"Closed Space Nozzles Twin Jet Configuration"

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"Comments on Russian Tu-114"

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"Compound Compressible Nozzle Flow"

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"Copper Artifacts: Correlation with Source Types Copper Ores"

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"A Correlation of High Subsonic Afterbody Drag in the Presence of a Propulsive Jet or Support Sting"

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"Effects of Compressibility on the Lift and the Load Characteristics of a Tapered Wing of NACA 64-210 Air Foil Sections"

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"Effect of Ice and Heated Air Deicing on the Aerodynamic Performance of Propellers"

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"Effect of Ice and Heated-Air Deicing on the Aerodynamic Performance of Propellers"--S.A.E.

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"The Effect of a Tip Modification and Thermal Deicing Air Flow on Propeller Performance"

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"The Elimination of Diffuser Separation by Vortex Generators"

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"Energy Losses in Air Screw Propellers"

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"Experimentally Determined Drag of Conical Afterbodies with Effects of Jet Exiting From a Convergent Divergent Nozzle with Thin Base"

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"An Experimental Investigation of the Unsteady Flows about Spheres and Disks"

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"Facility Safety Analysis Report: Vought Missiles and Space Company"

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"Facility Review for Director of Langley Research Center"

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"Field of Flow About a Jet and Effect of Jets on Stability of Jet Propelled Airplanes"

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"Formulas and Charts for Designing Flexure Pivots"

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"A Glow Discharge Anemometer"

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"H2O2 Injector: p1127 Box Engine"

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"An Improved Type of Crate for Bottled Beverages"

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"An Investigation of Transonic Flow Fields Surrounding Hot and Cold Sonic Jets"

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"Jet Noise Prediction"

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"The Langley 2000 Horsepower Propeller"

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"McDonnell Douglas IRAD Review"

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"Performance Characteristics of Existing Utility Boilers When Fired with Low BTU Gas"

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"Performance of an Ethanol-Gasoline Blend in Automobiles and Light Trucks"

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"Performance of Multiple Jet-Exit Installations" (n-65)

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"Performance of Variable Divergent-Nozzle Designed for Flight Mach Numbers"

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"Power Requirements of the Langley 16-Foot Transonic Tunnel with Test Section Air Removal"

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"Power Requirements of the 16-Foot Transonic Tunnel with Test Section Air Removal" (copy)

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"Preliminary Report to the Peninsula Planning District Commission on Solid Waste Management Plan"

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"Preliminary Trial of Pressure Belt"

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"Pressure Distributions for a Sting-Mounted Cone-Cylinder Body Which Simulates the 16-Foot Transonic Tunnel Strut-Mounted Air-Powered Nacelle"

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"A Problem of Three Dimensional Hypersonic Boundary Layer Interaction"

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"Protien Concentrates from Distillers By-Products"

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"Reduction of Noise from Unerexpanded Axisymmetric Jet Flows Using Low Energy Radial Jet Flow Implement"

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"Reduction of Wall Interface for High-Lift Model Testing"

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"Second Generation Supersonic Transport"

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"Silver Screen Catalyst Bed"

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"Stress Investigation of Axial Flow Compressor"

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"Study and Development of Acoustic Treament for Jet Engine Tail Pipes"

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"Summary of Jet Exit Research"

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"The Transfer Function for a Laser Interferometric Angle Sensing Instrument"

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"The Transonic 16-Foot Tunnel Turbulende-Damping-Screen"

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"Variable Geometry Requirements in Inlets and Exhaust Nozzles for High Mach Number Applications"

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"War Time Report: Tunnel Wall Corrections to Rolling and Yawing Moments Due to Aileron Deflection in Closed Rectangular Wind Tunnels"

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Wind Tunnel Tests: Vought XF4U-1 Airplane

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Wind Tunnel Tests: Vought XF4U-1 Airplane Report Copy

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Subseries C: Papers

8th Intersociety Energy Conservation Engineering Conference: "Design and Demonstration of Low Emission Rankine Cycle Auto Engine Using Organic Working Fluid and Turbine Expander"

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"Combustion and Emissions Characteristics of Methanol, Methanol-Water, and Gasoline-Methanol Blends in a Spark Ignition Engine"

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"Design and Testing of a 150 Watt SNAP 19 High Performance Generator"

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"Determination of ASME Nozzle Flow Coefficients by Thrust Measurement"

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"A Dual-Element Transducer for Measuring Gas-Stream Temperatures"

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"Effects of Engine Exhaust Flow on Boattail Drag"

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"Experimental Optimization of Subsonic Inlet Design Parameters"

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"Experimental Results with Lift Engine Exhaust Nozzles"

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"Exploratory Investigation of Jet Engine Silencing with Plug Nozzle Configurations"

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"Flow and Acoustic Charecteristics of 191 Tubes and 191 Shrouds Supersonic Jet Noise Supressor"

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"H2O2 Auxiliary Power Unit for Space Shuttle Vehicles"

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"The Jet Flap Diffuser: A New Thrust Augumenting Device"

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"Large Scale Terrestrial Solar Cell Power Generation Cost: A Preliminary Assessment"

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"Prespectives of SST Aircraft Noise Problem"

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"Methanol Technology and Economics "

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"Methanol: A Versatile Fuel for Immediate Use"

Unit Date ca. 1973, 1976
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"Mixed Flow Nozzle Turbofan Propulsion Simulation with an Air Driven Model Engine"

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"Multielement Suppressor Nozzles for Thrust Augmentation Systems"

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"Nebraska Statutes: The Basis for the Gasohol Program"

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"The Nebraska GASOHOL Program, Providing Food and Fuel for the Future"

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"Net Energy Analysis of Ethanol Production"

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"New Aspects of Sound Generation by Circular Jets"

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"Oxygen: New Chemical for Pulp Industry"

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"Oxygen Seperated from Air Using Molecular Sieve"

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"A Preliminary Assment of the Feasibilty of Deriving Liquid and Gaseous Fuels from Grown and Waste Organics"

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"Propulsive Efficiency of Tail Mounted Turbofan Engines"

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"Simple Pressure Source Model of Jet Noise"

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"Simplified Propeller Calculations"

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"Tables for Compressible Flow for a Gamma of 1.266"

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"Comparisons of Free Flight and Wind Tunnel Data on Slender Cones"

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"The Compressible Discharge Coefficient of a Borda-Pipe and Other Nozzles"

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"Compressible Flow Through a Two Dimensional Slit"

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"Discharge Coefficient Characteristics of Orfices"

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"Dynamics of Bilaterally Symetric Vortex Rings"

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"The Effects of Exhaust Nozzle Recombination on Hypersonic Ramjet Performance"

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"The Effect of Jet Entrainment on Lift and Moment for a Thin Aerofoil with Blowing"

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"An Equation for the Entrainment of Ejectors"

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"Flow Field in A Swirl Chamber"

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"Fuel and Feedstock from Refuse"

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"Handbook of Solid Waste Disposal Materials and Energy Recovery"

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"History of the NACA"

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"How to Prevent and Remove Mildew"

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"How Much Defense?"

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"Hypersonic Propulsion"

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"Hysteresis in the Flow Through an Orifice"

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"Influence of a Jet on the Aerodynamic Properties of Wings Positioned Above the Jet"

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"LRC Turboprop Research to Support LeRC Propulsion/Airframes Integration"

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"The Maximum Attainable Pressure in a Moving Gas-Vacuum- Atmosphere System"

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"The Motion of a Two Dimensionsl Bouyant Vortex "

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"Nozzle Discharge Coefficient"

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"Pressure Change Accompanying Mixing Two Ideal Gases"

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"Processing Energy from Wastes"

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"Propelling Nozzle Research"

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"James J. Kilpatrick: Questions Things They Ought Not to Have Done"

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"The Stability of Viscous Fluid Between Cylinders with an Axial Flow"

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"Sink Vorticies and Whirlwinds"

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"Scientists Tackle Jet Noise Problem"

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"SpaceCraft Radiators"

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"Some Experiments on an Engine Installed Above the Wing"

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"Soviet Physics Acoustics"

Unit Date 1965

box-folder 8 (box)

Container 114 (folder)

"Suggests Look at Disposal Systems"

Unit Date 1965

box-folder 8 (box)

Container 115 (folder)

"The Turborocket for High Speed Air Breathing Vehicles"

Unit Date 1965

box-folder 8 (box)

Container 116 (folder)

"A Windstorm That Blows Good!"

Unit Date 1971

box-folder 8 (box)

Container 117 (folder)

Subseries F: Pamphlets, Brochures, and Directories

Air Scoop Langley Newsletter**Unit Date** 1947-1960**box-folder** 9 (box)**Container** 1 (folder)**Aviation Week and Space Technology XC-142A Pamphlet****Unit Date** 1965**box-folder** 9 (box)**Container** 2 (folder)**Contact Lenses Coupon****Unit Date** 1982**box-folder** 9 (box)**Container** 3 (folder)**Directory for Langley Research Center****Unit Date** 1972**box-folder** 9 (box)**Container** 4 (folder)**Directory for Langley Research Center****Unit Date** 1973**box-folder** 9 (box)**Container** 5 (folder)**Directory for Langley Research Center****Unit Date** 1976**box-folder** 9 (box)**Container** 6 (folder)**Langley Research Center: Personnel Newsletter****box-folder** 9 (box)**Container** 7 (folder)**McDonnell Douglas--Brochure/Map****Unit Date** 1967, n.d.**box-folder** 9 (box)**Container** 8 (folder)**NACA Fortieth Anniversary****Unit Date** 1955**box-folder** 9 (box)**Container** 9 (folder)**"NACA-LMAL and You"****box-folder** 9 (box)**Container** 10 (folder)**NACA Reunion: Ashville, North Carolina****Unit Date** 1976**box-folder** 9 (box)**Container** 11 (folder)**NASA Fiftieth Aniversiary Celebration****Unit Date** 1967**box-folder** 9 (box)**Container** 12 (folder)**"Nuclear Attack and Industrial Survival"****Unit Date** 1962**box-folder** 9 (box)**Container** 13 (folder)**Society of Automotive Engineers--Brochures/Pamphlets****Unit Date** 1948**box-folder** 9 (box)**Container** 14 (folder)**S.A.E.: Aeronautical and Air Transport Meeting****Unit Date** 1948**box-folder** 9 (box)**Container** 15 (folder)**Tech Brief (Category 2): Prediction of Friction Coefficients for Gases****Unit Date** 1969**box-folder** 9 (box)**Container** 16 (folder)**"A Visit to Langley Research Center"****Unit Date** 1970**box-folder** 9 (box)**Container** 17 (folder)