

Phillips, William Hewitt, Papers

William Hewitt Phillips Papers

1918-2008



Title Statement

Phillips, William Hewitt, PapersWilliam Hewitt Phillips Papers, 1918-2008 Ms.2005.019

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2025-02-28 Ella Winterling added Existence and Location of Copies.

Descriptive Summary

Unit ID

Ms.2005.019

Unit Date

1918-2008

Language

The materials in the collection are in English.

Abstract

This collection contains the papers of William Hewitt Phillips (1918-2009), an aerospace engineer for the National Advisory Committee for Aeronautics (NACA) and National Air and Space Administration (NASA). The collection includes lecture notes, reports and memoranda tracing the development of Phillips' theories while at the Langley Research Center and spans from his work on World War II-era aircraft to the early U.S. space program and beyond. These papers include calculations of various numerical values in relation to various aircraft and spacecraft, as well as drawings and other illustrations. The collection also contains a set of Phillips' official reports, files devoted to lectures delivered by Phillips, and notes from courses and lectures presented by others. Major topics in this collection include aircraft stability and control; gust alleviation; wing theories; types of planes; shuttles; airfoils; gliders; and simulation of space operations (particularly the Lunar Landing Research Facility).

Creator

Phillips, William H. (William Hewitt), 1918-2009

Extent

28.5 Cubic Feet 57 boxes; 1 oversize folder

Repository

Special Collections and University Archives, Virginia Tech

Administrative Information

Conditions Governing Access

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Source of Acquisition

The William Hewitt Phillips Papers were donated to Special Collections and University Archives in 1997, 2005, and 2010.

Processing Information

The processing, arrangement and description of the 2005 accession of the William Hewitt Phillips Papers commenced in September 2008 and was completed in February 2009. Processing of the second accession commenced in July 2014 and was completed in September 2014.

Additional processing, arrangement, and description of the William Hewitt Phillips Papers was completed as part of the project, "Piercing the Veil: Creating Access to the Archives of American Aerospace Exploration at Virginia Tech," funded by the National Historical Publications and Records Commission (NHPRC) in 2024.

Preferred Citation

Researchers wishing to cite this collection should include the following information: [identification of item], [box], [folder], William Hewitt Phillips Papers, Ms2005-019, Special Collections and University Archives, Virginia Tech, Blacksburg, Va.

Biographical Note

William Hewitt Phillips, known more familiarly as Hewitt Phillips, was born in Merseyside, England, in 1918, but moved with his parents at age two to the United States. He studied aeronautical engineering at the Massachusetts Institute of Technology (MIT), obtaining an S. B. degree in 1939 and an S.M. in 1940. During his childhood, he developed an interest in model aircraft, and he maintained an active interest in the hobby throughout his life.

In July 1940, Phillips commenced service with the National Advisory Committee for Aeronautics (NACA), where he was assigned to the Flight Research Division at Langley Research Center (Hampton, Virginia), specializing in the study of aircraft flying qualities and stability. Within this broader assignment, Phillips' task involved the improvement of World War II military aircraft flying qualities. Following the war, Phillips' research related to the development of jet-powered fighter airplanes, supersonic airplanes, stability augmentation and its effect on pilot control, automatic control, and gust alleviation. In 1947, Phillips married

Viola Ohler, then head of Langley's editorial office. The couple had three children.

As the U. S. space program commenced, Phillips became chief of the Space Mechanics Division, supervising research in the areas of space rendezvous, navigation, and lunar landing and developing flight simulators for the Gemini and Apollo programs. To train astronauts for lunar landings, Phillips developed the Lunar Landing Facility. He later served as an analyst and consultant in the development of the space shuttle.

Phillips retired from NASA in February 1979 but continued in the position of distinguished research associate, performing original research on solar-powered aircraft, propellers, airfoil design and wind-tunnel studies of the use of canard surfaces for the space shuttle. He died in 2009.

Scope and Content

This collection contains the papers of William Hewitt Phillips, an aerospace engineer for the National Advisory Committee for Aeronautics (NACA) and National Air and Space Administration (NASA) at Langley Research Center and chief of the Flight Dynamics and Control Division from 1970 to 1979. The collection includes lecture notes, reports and memoranda tracing the development of Phillips' theories while at Langley and spans from his work on World War II-era aircraft to the early U.S. space program and beyond, as well as his longstanding and active interest in model aircraft design and testing. These papers include calculations of various numerical values in relation to various aircraft and spacecraft, as well as drawings and other illustrations. The collection also contains a set of Phillips' official reports, files devoted to lectures delivered by Phillips, and notes from courses and lectures presented by others. Major topics in this collection include aircraft stability and control; gust alleviation; wing theories; types of planes; shuttles; airfoils; gliders; simulation of space operations (particularly the Lunar Landing Research Facility), and model aircraft. An item of note is a typescript draft of Phillips' autobiography, *Journey into Aeronautical Research: a Career at NASA Langley Research Center*.

Separated Materials

The following items were removed from the collection and cataloged for the Rare Book Collection:

Maxim, Hiram S. *Artificial and Natural Flight*. New York: MacMillan, 1908.

Byers, Bruce K. *Destination Moon: A History of the Lunar Orbiter Program* (NASA Technical Memorandum TM X-3487). Washington DC: NASA, 1977.

Related Materials

Phillips, W. Hewitt, *Journey in Aeronautical Research: a Career at NASA Langley Research Center* (Washington, D.C.: NASA History Office, 1998). Call number: TL540 P54 J687 1998 Large Spec (in the Rare Book Collection at Virginia Tech Special Collections and University Archives).

Keywords

Aerospace engineers

Archives of American Aerospace Exploration (AAAE)

Science and Technology

United States -- National Advisory Committee for Aeronautics -- Officials and employees

United States -- National Aeronautics and Space Administration -- Officials and employees

United States. National Advisory Committee for Aeronautics

United States. National Aeronautics and Space Administration

Existence and Location of Copies

Some of this collection has been digitized and is available online.

Rights Statement for Archival Description

The guide to the William Hewitt Phillips Papers by Special Collections and University Archives, Virginia Tech, is licensed under a CC0 (<https://creativecommons.org/share-your-work/public-domain/cc0/>).

Arrangement

The collection is divided into two series.

Series I, comprising the 1997 and 2004 donations of papers, to a large extent retains the original order in which it was received, though some minor changes have been made for the sake of consistency. The majority of the collection, consisting of subject files, is arranged alphabetically by topic. Phillips' formal reports are arranged chronologically. The arrangement and file titles of a few folders have been changed to provide consistency to the alphabetical order. The materials have been divided among five subseries:

Subseries A: Subject Files. The files were originally housed in four cabinets, later transferred to six boxes by the donor, and finally transferred to permanent boxes during archival processing. The contents of each original cabinet had been arranged in a generally alphabetical order, but there was no overall arrangement among the individual cabinets. Thus, the alphabetical order of the original Cabinet 1 comprises Boxes 1-5; of Cabinet 2, Boxes 5-11; of Cabinet 3, Boxes 11-21; and of Cabinet 4, Boxes 21-25.

Subseries B: NACA and NASA Reports. Arranged chronologically, this subseries contains files on reports and talks given by Phillips related to his professional research.

Subseries C: Other Writings and Lectures by Phillips. This subseries includes drafts, notes, and other materials relating to writings and lectures by Phillips. It is arranged alphabetically by topic and includes a draft of Phillips' autobiography, detailing his personal and professional life.

Subseries D: Lectures and Courses Presented by Others. Originally found in no particular order, this set of files from lectures and courses presented by those other than Phillips is now arranged by name of presenter.

Subseries E: Oversize Materials. These materials were found separated from the rest of the materials in the collection and consist of "Typical Printouts from the Eppler Program."

Series II, the 2010 donation, contains the same types of materials found in Series I. These papers had no original arrangement but instead consisted mostly of loose papers together with a few individual folders and printed materials. The materials have been divided among seven subseries:

Subseries A: Writings and Lectures. Included in this subseries are files relating to the output of Phillips' research, both in a professional capacity and as a model aircraft enthusiast. The files include not only drafts and published works, but background materials and correspondence. Arranged alphabetically by title or subject.

Subseries B: Subject Files. Arranged alphabetically, this subseries contains materials gathered by Phillips in the course of his research on various topics and his involvement in various professional- and hobby-related activities. Much of the material relates to Phillips' interest in model aircraft.

Subseries C: Correspondence Files. Though personal matters are sometimes discussed, the correspondence in these files relates largely to Phillips' work and his pursuits in model aircraft design, building, and testing. Arranged alphabetically by correspondent.

Subseries D: Photographs. Nearly all of the photos in this series are of Phillips individually or include him at various events.

Subseries E: Personal Life, Education, and Career. Included in this series are materials relating to Phillips' education at Belmont High School and the Massachusetts Institution of Technology. Also here are records and mementos from his NACA / NASA career, including his many awards. Documenting Phillips' personal life is a set of diaries that he maintained throughout his adult life.

Subseries F: Oversize Materials contains large photographs, awards, and Phillips's high school diploma.

Description of Subordinate Components

Series I: 1997 and 2004 Donations

Subseries A: Subject Files

Unit Date 1942-1995

Aileron Tabs and Damage Analysis

Unit Date n.d.

box-folder 1 (box)

Container 1 (folder)

Airspeed

Unit Date 1944, n.d.

box-folder 1 (box)

Container 2 (folder)

[Bell] X1 / XS-1

Unit Date 1947, n.d.

box-folder 1 (box)

Container 3 (folder)

Bibliography/References

Unit Date 1946-1953, n.d.

box-folder 1 (box)

Container 4 (folder)

Bomb Drop Proposal

Unit Date 1942-1945, n.d.

box-folder 1 (box)

Container 5 (folder)

Canard

Unit Date 1948

box-folder 1 (box)

Container 6 (folder)

Compressibility Theory References

Unit Date [1945]

box-folder 1 (box)

Container 7 (folder)

Conference Notes

Unit Date 1946-1950

box-folder 1 (box)

Container 8 (folder)

Control Surface (Optimum Plan Form)

Unit Date 1942

box-folder 1 (box)

Container 9 (folder)

Correlation Committee

Unit Date 1946-1947, n.d.

box-folder 1 (box)

Container 10 (folder)

Corrosion

Unit Date 1953

box-folder 1 (box)

Container 11 (folder)

Delta Wing Theory

Unit Date 1948, n.d.

box-folder 1 (box)

Container 12 (folder)

Dihedral

Unit Date n.d.

box-folder 1 (box)

Container 13 (folder)

Douglas D558-2, X-3, C-54

Unit Date 1945-1950, n.d.

box-folder 1 (box)

Container 14 (folder)

Drag Balance

Unit Date n.d.

box-folder 1 (box)

Container 15 (folder)

External Stores Drag

Unit Date n.d.

box-folder 1 (box)

Container 16 (folder)

Fabric Deflection

Unit Date 1942-1944, n.d.

box-folder 1 (box)

Container 17 (folder)

Filters, Transfer Functions For

Unit Date 1948, n.d.

box-folder 1 (box)

Container 18 (folder)

Flutter - Detached Tab or Spring Tab and Weight

Unit Date 1944-1945, n.d.

box-folder 1 (box)

Container 19 (folder)

Flying Qualities

Unit Date 1942-1946, n.d.

box-folder 2 (box)

Container 1 (folder)

Formulas

Unit Date n.d.

box-folder 2 (box)

Container 2 (folder)

Frequency-Response Lateral

Unit Date n.d.

box-folder 2 (box)

Container 3 (folder)

Fuel Slashing

Unit Date 1963-1964

box-folder 2 (box)

Container 4 (folder)

"G" Restrictor

Unit Date n.d.

box-folder 2 (box)

Container 5 (folder)

Grumman

Unit Date 1944-1950

box-folder 2 (box)

Container 6 (folder)

Gust Recorder Flight Notes

Unit Date 1947-1949, n.d.

box-folder 2 (box)

Container 7 (folder)

Gyro Errors and Effect on T.O.

Unit Date 1945-1949

box-folder 2 (box)

Container 8 (folder)

Hinge Moments (Section & Finite Span)

Unit Date n.d.

box-folder 2 (box)

Container 9 (folder)

Instruments

Unit Date 1950-1954, n.d.

box-folder 2 (box)

Container 10 (folder)

Jet Propulsion (Optimum Jet Angle)

Unit Date 1945, n.d.

box-folder 2 (box)

Container 11 (folder)

Landing Gears

Unit Date n.d.

box-folder 2 (box)

Container 12 (folder)

Landing Theory

Unit Date 1948-1951, n.d.

box-folder 2 (box)

Container 13 (folder)

Landings Glide Path Calc.

Unit Date 1949, n.d.

box-folder 2 (box)

Container 14 (folder)

Lateral Oscillations L-39 (Brisick's Work)

Unit Date n.d.

box-folder 2 (box)

Container 15 (folder)

Lenticular Satellite

Unit Date 1963-1964, n.d.

box-folder 2 (box)

Container 16 (folder)

Light Airplane

Unit Date 1946-1949, n.d.

box-folder 3 (box)

Container 1 (folder)

Lockheed P-38, P-80

Unit Date 1952, n.d.

box-folder 3 (box)

Container 2 (folder)

Lockheed TV-2

Unit Date 1953-1955

box-folder 3 (box)

Container 3 (folder)

Martin XB-33 and Wind Tunnel Wall Effects

Unit Date 1947-1950, n.d.

box-folder 3 (box)

Container 4 (folder)

McDonnell XP-67, F-88, F2H-2N

Unit Date 1950

box-folder 3 (box)

Container 5 (folder)

Moment of Inertia, Elev. (Prosphere)

Unit Date 1948-1953

box-folder 3 (box)

Container 6 (folder)

North American XB-45, P-51P, XP-82

Unit Date 1946-1950, n.d.

box-folder 3 (box)

Container 7 (folder)

Northrop, XP-56, B-35, X-4

Unit Date 1949, n.d.

box-folder 3 (box)

Container 8 (folder)

Organization - NACA

Unit Date 1949-1955

box-folder 3 (box)

Container 9 (folder)

Oscillator

Unit Date 1950, n.d.

box-folder 3 (box)

Container 10 (folder)

Propeller (Supersonic)

Unit Date n.d.

box-folder 3 (box)

Container 11 (folder)

Propellers in Yaw

Unit Date 1942-1952, n.d.

box-folder 3 (box)

Container 12 (folder)

Quartic Charts

Unit Date n.d.

box-folder 3 (box)

Container 13 (folder)

Reports

Unit Date [1944-1950]

box-folder 3 (box)

Container 14 (folder)

Republic P-47, F-12, F84

Unit Date 1943-1948

box-folder 3 (box)

Container 15 (folder)

Rotary Servo Tab

Unit Date 1948-1950

box-folder 3 (box)

Container 16 (folder)

Section Operations

Unit Date n.d.

box-folder 3 (box)

Container 17 (folder)

Servo Controls

Unit Date 1942-1945, n.d.

box-folder 3 (box)

Container 18 (folder)

Sideslip in Rolls, P-63 and A-26

Unit Date n.d.

box-folder 3 (box)

Container 19 (folder)

Sideslip Under Gravity

Unit Date n.d.

box-folder 3 (box)

Container 20 (folder)

Spiral Stability

Unit Date 1950

box-folder 4 (box)

Container 1 (folder)

Spring Tab (for P-40)

Unit Date 1943-1949

box-folder 4 (box)

Container 2 (folder)

Spring Tab Derivation

Unit Date 1948, n.d.

box-folder 4 (box)

Container 3 (folder)

Geared Spring Tab

Unit Date 1944-1948, n.d.

box-folder 4 (box)

Container 4 (folder)

Stability Derivatives

Unit Date 1950, n.d.

box-folder 4 (box)

Container 5 (folder)

Stability, Directional

Unit Date 1943, n.d.

box-folder 4 (box)

Container 6 (folder)

Stability, Directional, Ellipsoids, and Stability Derivatives

Unit Date 1942, n.d.

box-folder 4 (box)

Container 7 (folder)

Stability, Directional - Miscellaneous

Unit Date n.d.

box-folder 4 (box)

Container 8 (folder)

Stability Equations

Unit Date 1947, n.d.

box-folder 4 (box)

Container 9 (folder)

Stability Flutter of All Moveable Tail

Unit Date 1951, n.d.

box-folder 4 (box)

Container 10 (folder)

Stability Lateral Oscillations

Unit Date 1949, n.d.

box-folder 4 (box)

Container 11 (folder)

Stability - Longitudinal & Directional Oscillation

Unit Date n.d.

box-folder 4 (box)

Container 12 (folder)

Stability - Longitudinal Divergence

Unit Date 1941, n.d.

box-folder 4 (box)

Container 13 (folder)

Stability, Longitudinal - Wing Divergence Effect

box-folder 4 (box)

Container 14 (folder)

Stability Snaking

Unit Date 1944-1950, n.d.

box-folder 4 (box)

Container 15 (folder)

General Physical Description note [2 folders]

Stability - Snaking, Aileron (Final)

Unit Date 1944, n.d.

box-folder 4 (box)

Container 16 (folder)

Stalling Characteristics

Unit Date 1948-1950, n.d.

box-folder 5 (box)

Container 1 (folder)

Supersonic Airfoil (Opt. Shape)

Unit Date 1946, n.d.

box-folder 5 (box)

Container 2 (folder)

Supersonic Flow

Unit Date 1944, n.d.

box-folder 5 (box)

Container 3 (folder)

Sweptback Wings

Unit Date 1948, n.d.

box-folder 5 (box)

Container 4 (folder)

Sweptback Wings (Dihedral)

Unit Date 1945-1948, n.d.

box-folder 5 (box)

Container 5 (folder)

Take Off in Cross Wind

box-folder 5 (box)

Container 6 (folder)

Turn, Pulling Into

Unit Date 1942

box-folder 5 (box)

Container 7 (folder)

2-Control Airplane Stability

Unit Date 1952, n.d.

box-folder 5 (box)

Container 8 (folder)

V-Tail

Unit Date 1942, n.d.

box-folder 5 (box)

Container 9 (folder)

Vibrations in Recording Instruments

Unit Date n.d.

box-folder 5 (box)

Container 10 (folder)

Vought XF60-1 Report (Unused parts)

Unit Date 1948-1950

box-folder 5 (box)

Container 11 (folder)

Weighted Cable

Unit Date 1942-1972, n.d.

box-folder 5 (box)

Container 12 (folder)

Wing Design - Swept Wing, Structural Consideration

Unit Date 1945, n.d.

box-folder 5 (box)

Container 13 (folder)

Yaw Chair

Unit Date n.d.

box-folder 5 (box)

Container 14 (folder)

Yaw Vane

Unit Date 1942-1957, n.d.

box-folder 5 (box)

Container 15 (folder)

Acceleration Alleviation

Unit Date 1949-1967, n.d.

box-folder 5 (box)

Container 16 (folder)

General Physical Description note [2 folders]

Acceleration Restrictor

box-folder 5 (box)

Container 17 (folder)

Air Density Satellite

Unit Date 1966

box-folder 5 (box)

Container 18 (folder)

Apollo Conference

Unit Date May 1965

box-folder 5 (box)

Container 19 (folder)

Apollo

Unit Date 1960-1962

box-folder 6 (box)

Container 1 (folder)

Apollo Guidance

Unit Date 1961-1966

box-folder 6 (box)

Container 2 (folder)

Attitude Control Systems

Unit Date 1959-1963, n.d.

box-folder 6 (box)

Container 3 (folder)

Bibliographies

Unit Date 1952-1957

box-folder 6 (box)

Container 4 (folder)

Biotechnology, Committee on

Unit Date 1963

box-folder 6 (box)

Container 5 (folder)

Boost System Friction

Unit Date 1952-1954

box-folder 6 (box)

Container 6 (folder)

Cable Gravitational Field

Unit Date 1959

box-folder 6 (box)

Container 7 (folder)

Calculus of Variations

Unit Date 1957-1964, n.d.

box-folder 6 (box)

Container 8 (folder)

Circum-Lunar Mission

Unit Date 1960

box-folder 6 (box)

Container 9 (folder)

Committee Meeting Data

Unit Date 1949-1961, n.d.

box-folder 6 (box)

Container 10 (folder)

General Physical Description note [2 folders]

Conference on Operating

Unit Date May 1964

box-folder 6 (box)

Container 11 (folder)

Controls (Also Discontinuous)

Unit Date 1950-1959, n.d.

box-folder 6 (box)

Container 12 (folder)

Convair F-102, B-58

Unit Date n.d.

box-folder 6 (box)

Container 13 (folder)

Directional Stability Report

Unit Date n.d.

box-folder 7 (box)

Container 1 (folder)

Discontinuous Controls

Unit Date 1960-1963, n.d.

box-folder 7 (box)

Container 2 (folder)

Discontinuous Controls

Unit Date 1944-1967

box-folder 7 (box)

Container 3 (folder)

General Physical Description note [2 folders]

Douglas DC-3

Unit Date 1952

box-folder 7 (box)

Container 4 (folder)

Dynamics - Large Displacement

Unit Date 1951, n.d.

box-folder 7 (box)

Container 5 (folder)

Energy Storage Devices

Unit Date n.d.

box-folder 7 (box)

Container 6 (folder)

EVA Extra-Vehicular Activity, Tether, OMPRA

Unit Date 1965, n.d.

box-folder 7 (box)

Container 7 (folder)

Exams for Masters Degree

Unit Date 1965, n.d.

box-folder 7 (box)

Container 8 (folder)

Feel Device and Overshoot in Pullups

Unit Date 1953-1954

box-folder 7 (box)

Container 9 (folder)

Fire Control - Aberdeen Conference

Unit Date Feb 1952

box-folder 7 (box)

Container 10 (folder)

Flight Programs

Unit Date 1971

box-folder 7 (box)

Container 11 (folder)

Flutter

Unit Date n.d.

box-folder 7 (box)

Container 12 (folder)

Fly-by of Planet

Unit Date 1966

box-folder 7 (box)

Container 13 (folder)

Front Fin for Offsetting Cross Wind

Unit Date n.d.

box-folder 7 (box)

Container 14 (folder)

G Restrictor

Unit Date 1953-1958, n.d.

box-folder 7 (box)

Container 15 (folder)

Gravity Gradient Dynamic Model

Unit Date 1964, n.d.

box-folder 7 (box)

Container 16 (folder)

Gust Alleviation by Hirsch

Unit Date 1967-1994, n.d.

box-folder 8 (box)

Container 1 (folder)

General Physical Description note [2 folders]

Gust Alleviation (Weiss)

Unit Date 1951-1955, n.d.

box-folder 8 (box)

Container 2 (folder)

Gyro Lecture and Papers

Unit Date n.d.

box-folder 8 (box)

Container 3 (folder)

Handling Qualities

Unit Date 1951-1957, n.d.

box-folder 8 (box)

Container 4 (folder)

Handling Qualities, English Trip

Unit Date 1948-1960, n.d.

box-folder 8 (box)

Container 5 (folder)

Height Bounced from Seats

box-folder 8 (box)

Container 6 (folder)

Helicopter

Unit Date 1963

box-folder 8 (box)

Container 7 (folder)

Hirsch Correspondence

Unit Date 1980-1982, n.d.

box-folder 8 (box)

Container 8 (folder)

Hirsch Workshop

Unit Date 1981, n.d.

box-folder 8 (box)

Container 9 (folder)

Hodograph Solutions

Unit Date 1962, n.d.

box-folder 8 (box)

Container 10 (folder)

Human Pilot, Booster Control

Unit Date 1956-1972, n.d.

box-folder 8 (box)

Container 11 (folder)

General Physical Description note [2 folders]

Human Response Analysis

Unit Date 1954-1972, n.d.

box-folder 9 (box)

Container 1 (folder)

General Physical Description note [2 folders]

Ideas

Unit Date 1953-1971

box-folder 9 (box)

Container 2 (folder)

IFAC Talk on Gust Alleviations

Unit Date 1971-1972, n.d.

box-folder 9 (box)

Container 3 (folder)

Inspection

Unit Date 1956, n.d.

box-folder 9 (box)

Container 4 (folder)

Job Summaries for Annual Report and Status Report

Unit Date 1958

box-folder 9 (box)

Container 5 (folder)

Kalman Filter Theory

Unit Date 1964

box-folder 9 (box)

Container 6 (folder)

Lateral Equation, Time Vector Method

Unit Date 1951-1954

box-folder 9 (box)

Container 7 (folder)

Light Airplanes, T19

Unit Date 1950, n.d.

box-folder 9 (box)

Container 8 (folder)

Light Planes, Longitudinal Stability

Unit Date 1956-1982, n.d.

box-folder 9 (box)

Container 9 (folder)

Lunar Landing Research Facility (LLRF)

Unit Date 1963-1967

box-folder 9 (box)

Container 10 (folder)

Magnetic Torque Analysis

Unit Date 1960, n.d.

box-folder 9 (box)

Container 11 (folder)

[McDonnell] F4-C Investigations

Unit Date 1967

box-folder 9 (box)

Container 12 (folder)

Memorandums

Unit Date 1948-1968

box-folder 9 (box)

Container 13 (folder)

Midcourse Guidance

Unit Date 1963-1965

box-folder 9 (box)

Container 14 (folder)

Moon Surface

Unit Date 1966, n.d.

box-folder 9 (box)

Container 15 (folder)

Northrop X-4

Unit Date n.d.

box-folder 9 (box)

Container 16 (folder)

Parachute Reentry

Unit Date 1958-1960, n.d.

box-folder 9 (box)

Container 17 (folder)

Power Controls

Unit Date 1954-1955

box-folder 9 (box)

Container 18 (folder)

Programs for Flight Research

Unit Date 1959

box-folder 9 (box)

Container 19 (folder)

Programs for Space Flight Research (Proposed)

Unit Date 1959-1961

box-folder 9 (box)

Container 20 (folder)

Propulsive Efficiency (Tail Turbofans)

Unit Date n.d.

box-folder 9 (box)

Container 21 (folder)

Republic F-105

Unit Date 1962

box-folder 9 (box)

Container 22 (folder)

Roll Requirements

Unit Date 1956, n.d.

box-folder 9 (box)

Container 23 (folder)

Rolling Aircraft Transient Resp. (Bomb with 1 Fin)

Unit Date 1951-1952

box-folder 9 (box)

Container 24 (folder)

Rolling Airplane

Unit Date 1951

box-folder 9 (box)

Container 25 (folder)

Rolling Airplane (Bomb with 1 Fin, Rotating Space Vehicle)

Unit Date 1952-1954, n.d.

box-folder 9 (box)

Container 26 (folder)

Rolling Body, Gyro Stabilized Including Satellite

Unit Date 1960-1968, n.d.

box-folder 10 (box)

Container 1 (folder)

Rolling Divergence - Methods of Reducing

Unit Date 1955-1957, n.d.

box-folder 10 (box)

Container 2 (folder)

Sampled-Data System

Unit Date 1957, n.d.

box-folder 10 (box)

Container 3 (folder)

Servo-Vane Control

Unit Date 1948-1951

box-folder 10 (box)

Container 4 (folder)

Simulation

Unit Date n.d.

box-folder 10 (box)

Container 5 (folder)

Spinning Theory G. W. Braun

Unit Date 1957-1972, n.d.

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Unit Date 1953-1961, n.d.

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Unit Date 1957, n.d.

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Unit Date 1955-1959

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Unit Date 1959-1960

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Unit Date 1948-1963, n.d.

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Unsteady Lift Report

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Accident Report DC-10 (American Airlines Flight 191, Chicago)

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Unit Date 1971-1977

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Automatic Control, Performance Improvement Through

Unit Date 1969-1970, n.d.

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Complimentary Filters

Unit Date 1977-1978, n.d.

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Control Theory (Bridging the Gap)

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Unit Date 1976-1977, n.d.

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[Differential Maneuvering Simulator] TES-Tactical Effectiveness Simulator

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Differential Synthesis by Ray Montgomery

Unit Date 1968

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Digital Computer for Glider DCGI

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Dyna Soar (List of Reports)

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Facility, Flight Control Research

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Gas Turbine

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Flapping Wings

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Flight Controls - McGraw-Hill Encyclopedia

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Gliders - Technical Soaring Article

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Gliders - Theory

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[Gliders] 3rd International Symposium on Motorless Flight

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Gust Alleviation - Eric Stewart

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Gust Alleviation (with Autopilot) by Haines

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Gust Alleviation System, C-45

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Gust Calculations (C-45)

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GWU [George Washington University] Foundations of Response Research Conference

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Human Pilot - Foudriat and Wells

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[Shuttle] Langley Contributions

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Airfoil Design Method by Teodorsen - Article by Waldo Oehman

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Airfoils: Three Papers by Phillips

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Airfoils: Velocity Ahead of an Airfoil: Program by R. T. Jones

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Flight Control Review Group, Shuttle

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Joined Wings - Publicized by Wolkovitch

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Larrabee, E. Eugene - Copies of Talks

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Paper Airplane - World's Largest

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Papers on Airfoil Drag

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Photos of Langley's Aerodrome and Some Data

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Propeller Design for Very High Altitude Airplane

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Scaling

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Scaling, Paper for Journal of Aircraft

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Scaling, References - Compilation of Non-Dimensional Numbers

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Seventy-fifth Anniversary Book - Comments

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Shuttle - Entry Concerns and Oscillations of Elevons

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Shuttle Navigation System - Raymond Montgomery

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Solar-Powered Aircraft - von Flotow, Daedelus

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Solar-Powered and Microwave-Powered Aircraft, References

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Submarine - Longitudinal Response to Elevator Control

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Wind Tunnel Built for Virginia Air and Space Center

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Wing Leveler Fluidic

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Winglets

Unit Date 1962-1978, n.d.

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Container 6 (folder)

Yachts

Unit Date 1972-1984, n.d.

box-folder 25 (box)

Container 7 (folder)

Subseries B: NACA and NASA Reports

Unit Date 1941-1994

Measurements of the Longitudinal Stability and Control Characteristics of the Vought-Sikorsky XF4U-1 Airplane Memorandum Report for Bureau of Aeronautics

Unit Date Aug 30 1941

box-folder 25 (box)

Container 8 (folder)

Effect of Spring and Gravity Moments in the Control System on the Longitudinal Stability of the Brewster XsBA-1 Airplane

Unit Date Apr 1942

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Container 9 (folder)

General Physical Description note [2 copies]

Measurements of the Flying Qualities of a Hawker Hurricane Airplane

Unit Date Apr 1942

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Container 10 (folder)

General Physical Description note [2 copies]

A Flight Investigation of Short-Period Longitudinal Oscillations of an Airplane with Free Elevator

Unit Date May 1942

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Container 11 (folder)

Control-Surface Instability of High-Speed Airplanes

Unit Date Jun 1942

box-folder 25 (box)

Container 12 (folder)

Comparison of Aileron Control Characteristics as Determined in Flight Tests of P-36, P-40, Spitfire, and Hurricane Pursuit Airplanes

Unit Date Aug 1942

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Container 13 (folder)

Measurements of the Flying Qualities of a Submarine Spitfire Va Airplane

Unit Date Sep 1942

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Container 14 (folder)

General Physical Description note [2 copies]

Stalling Characteristics of the Submarine Spitfire Va Airplane

Unit Date Sep 1942

box-folder 25 (box)
Container 15 (folder)
General Physical Description note [2 copies]

A Flight Investigation of the Stability of a Towed Body

Unit Date Oct 1942
box-folder 25 (box)
Container 16 (folder)
General Physical Description note [3 copies]

Flight Test of Various Tail Modifications on the Brewster XSBA-1 Airplane I-Measurements of Flying Qualities with the Original Tail Surfaces

Unit Date Jul 1943
box-folder 25 (box)
Container 17 (folder)

Flight Tests of Various Tail Modifications on the Brewster XSBA-1 Airplane II - Measurements of Flying Qualities with Tail Configuration Number Two

Unit Date Dec 1943
box-folder 26 (box)
Container 1 (folder)

Measurements of the Flying Qualities of a Curtis SB2C1-Airplane

Unit Date Mar 1944
box-folder 26 (box)
Container 2 (folder)

Stability of a Body Stabilized by Fins and Suspended from an Airplane

Unit Date Apr 1944
box-folder 26 (box)
Container 3 (folder)

Application of Spring Tabs to Elevator Controls

Unit Date Oct 1944
box-folder 26 (box)
Container 4 (folder)

Effect of Lateral Shift of Center of Gravity on Rudder Deflection Required for Trim

Unit Date Nov 1944
box-folder 26 (box)
Container 5 (folder)

Application of Spring Tabs to Elevator Controls

Unit Date 1944
box-folder 26 (box)
Container 6 (folder)

The Use of Geared Spring Tabs for Elevator Control

Unit Date Feb 1945
box-folder 26 (box)
Container 7 (folder)

An Investigation of Additional Requirements for Stability Elevator Control Characteristics

Unit Date Jun 1946

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Container 8 (folder)

Effect of Steady Rolling on Longitudinal and Directional Stability

Unit Date Jun 1948

box-folder 26 (box)

Container 9 (folder)

Appreciation and Prediction of Flying Qualities - Technical Report 927

Unit Date 1948-1949

box-folder 26 (box)

Container 10 (folder)

General Physical Description note [2 items: NACA Technical Note 1670 (Aug 1948) and NACA Report 927 (1949)]

Theoretical Analysis of Oscillations of a Towed Cable

Unit Date Jan 1949

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Container 11 (folder)

Low-Speed Tests of a Model Simulating the Phenomenon of Control-Surface Buzz

Unit Date Aug 1950

box-folder 26 (box)

Container 12 (folder)

Ability of Pilots to Control Simulated Short-Period Yawing Oscillations

Unit Date Nov 1950

box-folder 26 (box)

Container 13 (folder)

Theoretical Study of Some Methods For Increasing The Smoothness of Flight through Rough Air

Unit Date Jul 1951

box-folder 26 (box)

Container 14 (folder)

Theoretical Analysis of Some Simple Types of Acceleration Restrictors

Unit Date Dec 1951

box-folder 26 (box)

Container 15 (folder)

Effects on Longitudinal Stability and Control Characteristics of a Boeing B-29 Airplane of Variations in Stick-Force and Control-Rate Characteristics Obtained through Use of a Booster in the Elevator-Control System

Unit Date 1952

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Container 16 (folder)

Flight Investigation of Mechanical Feel Device in an Irreversible Elevator Control System of a Large Airplane

Unit Date 1952

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Container 17 (folder)

Graphical Solution of Some Automatic-Control Problems Involving Saturation

Unit Date Aug 1953

box-folder 26 (box)

Container 18 (folder)

Review and Investigation of Unsatisfactory Control Characteristics Involving Instability of Pilot-Airplane Combination and Methods for Predicting These Difficulties from Ground Tests

Unit Date Aug 1953

box-folder 26 (box)

Container 19 (folder)

Theoretical Investigation of Some Discontinuous Yaw Dampers

Unit Date Apr 1954

box-folder 26 (box)

Container 20 (folder)

A Method For Measuring The Product of Inertia and the Inclination of the Principal Longitudinal Axis of Inertia of an Airplane

Unit Date Apr 1954

box-folder 26 (box)

Container 21 (folder)

Investigation of Effect of Reduction of Valve Friction in a Power Control System by Use of a Vibrator

Unit Date Jul 1955

box-folder 26 (box)

Container 22 (folder)

Analysis of Automatic Control to Prevent Rolling Divergence

Unit Date Apr 1956

box-folder 27 (box)

Container 1 (folder)

Investigation by the Transonic-Bump Method of a 35° Sweptback Semispan Model Equipped with a Flap Operated By A Series of Servovaness Located Ahead of and Geared to the Flap

Unit Date Apr 1956

box-folder 27 (box)

Container 2 (folder)

Theoretical Calculation of the Power Spectra of the Rolling and Yawing Moments on a Wing in Random Turbulence

Unit Date Dec 1956

box-folder 27 (box)

Container 3 (folder)

Loads Implications of Gust-Alleviation System

Unit Date Jun 1957

box-folder 27 (box)

Container 4 (folder)

Flight Investigation of the Effectiveness of an Automatic Aileron Trim Control Device for Personal Airplanes

Unit Date 1957

box-folder 27 (box)

Container 5 (folder)

Scope and Contents note

[also includes "Simulator Studies of Several Lateral Stability Augmentation Concepts for Light Aircraft" by H. Douglas Garner (Langly Working Paper 999, Oct 6 1971)]

Subsonic Flight Investigation of Methods to Improve the Damping of Lateral Oscillations by Means of a Viscous Damper in the Rudder System in Conjunction with Adjusted Hinge-moment Parameters

Unit Date Jan 1958

box-folder 27 (box)

Container 6 (folder)

A Method for the Calculation of the Lateral Response of Airplane to Random Turbulence

Unit Date Feb 1958

box-folder 27 (box)

Container 7 (folder)

General Physical Description note [2 copies]

Analysis of a Cable in a Satellite Orbit

Unit Date Jun 15 1959

box-folder 27 (box)

Container 8 (folder)

The Lateral Response of Airplanes To Random Atmospheric Turbulence

Unit Date 1960

box-folder 27 (box)

Container 9 (folder)

Research on Blunt-Faced Entry Configurations at Angles of Attack Between 60° and 90°

Unit Date 1960

box-folder 27 (box)

Container 10 (folder)

A Longitudinal Control Feel System for In-Flight Research on Response Feel

Unit Date Jan 1961

box-folder 27 (box)

Container 11 (folder)

Analysis of Effects of Interceptor Roll Performance and Maneuverability on Success of Collision-Course Attacks

Unit Date Aug 1961

box-folder 27 (box)

Container 12 (folder)

Propulsive Efficiency of Tail-Mounted Turbofan Engines

Unit Date Dec 1968

box-folder 27 (box)

Container 13 (folder)

Effects of Spanwise Variation of Gust Velocity on Alleviation System Designed for Uniform Gust Velocity Across Span

Unit Date Jan 1971

box-folder 27 (box)

Container 14 (folder)

Effect on a Glider of Its Own Trailing Vortices in Circling Flight

Unit Date Jan 1972

box-folder 27 (box)

Container 15 (folder)

Analysis of Effect of Asymmetric Loading on Sailplane Performance in Circling Flight

Unit Date Oct 1972

box-folder 27 (box)

Container 16 (folder)

Effect of the Method of Obtaining Lateral Trim on the Drag of a Glider in a Steady Turn

Unit Date 1972

box-folder 27 (box)

Container 17 (folder)

Gyroscopic Moments on a Glider in Turning Flight

Unit Date 1972

box-folder 27 (box)

Container 18 (folder)

Study of the Control System to Alleviate Aircraft Response to Horizontal and Vertical Gusts

Unit Date Dec 1973

box-folder 27 (box)

Container 19 (folder)

Analysis of Experimental Studies of the Control of Hang Gliders

Unit Date 1974

box-folder 27 (box)

Container 20 (folder)

Recovering from a Vertical Dive

Unit Date 1975

box-folder 27 (box)

Container 21 (folder)

Propulsive Effects Due to Flight Through Turbulence

Unit Date 1975

box-folder 27 (box)

Container 22 (folder)

Investigation of Longitudinal Control System for a Small Hydrofoil Boat

Unit Date 1976

box-folder 27 (box)

Container 23 (folder)

Stability and Control of Hang Gliders

Unit Date 1976

box-folder 27 (box)

Container 24 (folder)

Ground Distance Covered During Airborne Horizontal Deceleration of an Airplane

Unit Date Apr 1978

box-folder 27 (box)

Container 25 (folder)

Simulation Study of the Oscillations Longitudinal Motion of an Airplane at the Stall

Unit Date Aug 1978

box-folder 27 (box)

Container 26 (folder)

Altitude Response of Several Airplanes During Landing Approach

Unit Date Nov 1979

box-folder 27 (box)

Container 27 (folder)

Some Design Considerations for Solar-Powered Aircraft

Unit Date Jun 1980

box-folder 27 (box)

Container 28 (folder)

Analytical Study of a Fireplace Heat Exchanger

Unit Date Feb 1981

box-folder 27 (box)

Container 29 (folder)

Flight Research on F8U-1 Airplanes

Unit Date Sep 1981

box-folder 28 (box)

Container 1 (folder)

Studies of Friction Drag and Pressure Drag of Airfoils Using the Eppler Program

Unit Date Oct 1988

box-folder 28 (box)

Container 2 (folder)

General Physical Description note [see also Oversize]

Dryden Lecture - Flying Qualities from Early Airplanes to the Space Shuttle

Unit Date Jul 1989

box-folder 28 (box)

Container 3 (folder)

Determination of the Pressure Drag of Airfoils by Integration of Surface Pressures

Unit Date Oct 1990

box-folder 28 (box)

Container 4 (folder)

General Physical Description note [2 copies]

Recollections of Langley in the Forties - Talk by W.H. Phillips

Unit Date Jun 1992

box-folder 28 (box)

Container 5 (folder)

Effects of Model Scale on Flight Characteristics and Design Parameters

Unit Date Mar-Apr 1994

box-folder 28 (box)

Container 6 (folder)

Subseries C: Other Writings and Lectures by Phillips

Unit Date 1951-1995

Accuracy of Frequency Response - Fourier Series

Unit Date 1951-1952, n.d.

box-folder 28 (box)

Container 7 (folder)

Aircraft Stability and Control - Miscellaneous Notes

Unit Date 1945-1950, n.d.

box-folder 28 (box)

Container 8 (folder)

Autobiography

Unit Date ca. 1995

box-folder 48 (box)

Container 12 (folder)

Effect of Roll Collision Course Attacks - Book I

Unit Date 1957, n.d.

box-folder 28 (box)

Container 9 (folder)

General Physical Description note [2 folders]

Effect of Roll Collision Course Attacks - Book II

Unit Date 1957, n.d.

box-folder 28 (box)

Container 10 (folder)

(Volume VII) Experimental Methods in High-Speed Aerodynamics Section N Piloted Aircraft Testing by Bailey, Zalovcik, Phillips and Huston

Unit Date n.d.

box-folder 29 (box)

Container 1 (folder)

(Article on) Gust Alleviation Presented as Part of a Series of Technical Talks at Rensselaer

box-folder 29 (box)

Container 2 (folder)

Gyro Lecture - Phillips

box-folder 29 (box)

Container 3 (folder)

Lunar Landing Facility

Unit Date 1961-1967, n.d.

box-folder 29 (box)

Container 4 (folder)

General Physical Description note [3 folders]

Moments on Satellites; Pearson Lecture Series; Density Determination; Control in Free Space

Unit Date 1958-1959, n.d.

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Container 5 (folder)

General Physical Description note [2 folders]

Phase Plane Methods

Unit Date 1952-1953, n.d.

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Container 1 (folder)

Space Stabilization - Bibliography

box-folder 30 (box)

Container 2 (folder)

Space Stabilization Talk for Interns

Unit Date n.d.

box-folder 30 (box)

Container 3 (folder)

Stabilization Work, Material for Talk on

Unit Date 1959, n.d.

box-folder 30 (box)

Container 4 (folder)

Stable Platform Lecture W.H.P.

Unit Date 1959

box-folder 30 (box)

Container 5 (folder)

Theory of Stability of Aircraft and Other Physical Systems

Unit Date n.d.

box-folder 30 (box)

Container 6 (folder)

VU-Graphs Dynamic Stability Lecture (folder 1 of 2)

Unit Date 1963-1976, n.d.

box-folder 30 (box)

Container 7 (folder)

General Physical Description note [2 folders]

Phillips Notes for Lecture Preparations

Unit Date 1950, n.d.

box-folder 30 (box)

Container 8 (folder)

Subseries D: Lectures and Courses Presented by Others

Unit Date 1950, n.d.

Diedrich - Introduction to Matrix Analysis

Unit Date n.d.

box-folder 30 (box)

Container 9 (folder)

[Diedrich] Matrix Notes

Unit Date n.d.

box-folder 30 (box)

Container 10 (folder)

Diedrich, Matrix Notes on Course by

Unit Date 1950, n.d.

box-folder 30 (box)

Container 11 (folder)

General Physical Description note [2 folders]

Dr. Eade Course - Calculus of Variation

box-folder 31 (box)

Container 1 (folder)

Dr. Kalman Lectures; Dr. Dreyfers Lectures

box-folder 31 (box)

Container 2 (folder)

Dr. Katzoff Course - Modern Physics

box-folder 31 (box)

Container 3 (folder)

Rempfer Lectures - Dr. Nashed

box-folder 31 (box)

Container 4 (folder)

Subseries E: Oversize Materials

Unit Date n.d.

Typical Printouts from the Eppler Program

oversize 1 (folder)

General Physical Description note [3 items]

Series II: 2010 Donation

Subseries A: Writings and Lectures

Unit Date 1936-2000

Advantages of the Right-Right Pattern

Unit Date n.d.

box-folder 32 (box)

Container 1 (folder)

Analysis of a Cable in a Satellite Orbit

Unit Date 1959

box-folder 32 (box)

Container 2 (folder)

Analysis of Effect of Assymetric Loading on Sailplane Performance in Circling Flight

Unit Date 1972

box-folder 32 (box)

Container 3 (folder)

Analysis of Means to Increase the Smoothness of Flight in Rough Air

Unit Date n.d.

box-folder 32 (box)

Container 4 (folder)

Analysis of the Article "The Outlook for the Flying Machine" by Professor Simon Newcomb (October 1903)

Unit Date 1982

box-folder 32 (box)

Container 5 (folder)

Analytical Study Using a Human Pilot Model of Effect of Adverse Lift Due to Elevon Deflection on Control Characteristics

Unit Date 1991, n.d.

box-folder 32 (box)

Container 6 (folder)

Applications fo Aerodynamic Theory to Stability

Unit Date n.d.

box-folder 32 (box)

Container 7 (folder)

Appreciation and Predictions of Flying Qualities

Unit Date 1945

box-folder 32 (box)

Container 8 (folder)

Comparison of the Scope of Ship and Airplane Handling Qualities [glass plates]

Unit Date n.d.

box-folder 32 (box)

Container 9 (folder)

Design Considerations for One-bladed Propellers

Unit Date n.d.

box-folder 32 (box)

Container 10 (folder)

Design of Electrically-powered Models to Reach Maximum Altitude

Unit Date n.d.

box-folder 32 (box)

Container 11 (folder)

Designing a Rubber-powered Model to Carry a Payload

Unit Date 1991

box-folder 32 (box)

Container 12 (folder)

Development of Transonic Test Facilities

Unit Date 1996, n.d.

box-folder 32 (box)

Container 13 (folder)

Dune Soaring at Kitty Hawk

Unit Date ca. 1955-1994

box-folder 32 (box)

Container 14 (folder)

Dynamic Stability and Control Class Lectures

Unit Date n.d.

box-folder 32 (box)

Container 15 (folder)

box-folder 33 (box)

Container 1 (folder)

Effect of Expansion and Contraction of the Surfaces on Shape of a Wedge-shaped Trailing Edge

Unit Date 1992

box-folder 33 (box)

Container 2 (folder)

Effect of Pressure Gradients on the Boundary Layer Along a Flat Plate (MIT undergraduate thesis)

Unit Date 1939

box-folder 33 (box)

Container 3 (folder)

Extent [original and photocopy] [2 folders]

Effect of the Variation of L/D with Lift Coefficient on the Ease of Making Power-Off Landings

Unit Date n.d.

box-folder 33 (box)

Container 4 (folder)

Effects of Model Scale on Flight Characteristics

Unit Date 1992-1993

box-folder 33 (box)

Container 5 (folder)

Endurance of Indoor Models at Low Ceilings

Unit Date 1936-1994, n.d.

box-folder 33 (box)

Container 6 (folder)

Experiments on Methods of Measuring the Lift-Drag Ratio of Airfoils

Unit Date n.d.

box-folder 33 (box)

Container 7 (folder)

Flight Control Research [videocassette]

Unit Date 1986

box-folder 33 (box)

Container 8 (folder)

Flight Investigation of the Effect of Friction on Power Boost Systems

Unit Date n.d.

box-folder 33 (box)

Container 9 (folder)

Flight Tests of an Airplane with Sweptback Wings

Unit Date n.d.

box-folder 33 (box)

Container 10 (folder)

Fluid Control Systems

Unit Date 1966

box-folder 33 (box)

Container 11 (folder)

Flying and Handling Qualities of Airplanes

Unit Date n.d.

box-folder 33 (box)

Container 12 (folder)

Flying Qualities from Early Airplanes to the Space Shuttle

Unit Date 1987-1989, n.d.

box-folder 33 (box)

Container 13 (folder)

Flying Qualities from Early Airplanes to the Space Shuttle

Unit Date 1988-1989, n.d.

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Container 1 (folder)

Flying Qualities of Airplanes at Transonic Speeds

Unit Date n.d.

box-folder 34 (box)

Container 2 (folder)

Free Flight articles

Unit Date 1977-1993

box-folder 34 (box)

Container 3 (folder)

The Friction Drag and Pressure Drag of Airfoils

Unit Date 1984, n.d.

box-folder 34 (box)

Container 4 (folder)

Gust Alleviation (Rensselaer Lecture)

Unit Date 1970, n.d.

box-folder 34 (box)

Container 5 (folder)

Gust Alleviation as a Subject for Research

Unit Date 1975-ca. 2000

box-folder 34 (box)

Container 6 (folder)

Hidden Treasures in Old NACA Reports

Unit Date 2000, n.d.

box-folder 34 (box)

Container 7 (folder)

High-speed Flight Stability and Control Problems

Unit Date 1954

box-folder 34 (box)

Container 8 (folder)

High-speed Stability and Control Problems

Unit Date 1953

box-folder 34 (box)

Container 9 (folder)

How Does an Airfoil Produce Lift?

Unit Date [1978?]-1983

box-folder 34 (box)

Container 10 (folder)

How to Defeat Drag

Unit Date n.d.

box-folder 34 (box)

Container 11 (folder)

Hydrodynamic Coefficients of an Elongated Body Rapidly Approaching a Free Surface

Unit Date 1976

box-folder 34 (box)

Container 12 (folder)

Investigation of Canard Surfaces to Improve Handling Characteristics of the Shuttle Orbiter

Unit Date 1988

box-folder 34 (box)

Container 13 (folder)

Investigation of Longitudinal Control System for a Small Hydrofoil Boat

Unit Date 1976

box-folder 34 (box)

Container 14 (folder)

Is Wing Covering Necessary?

Unit Date n.d.

box-folder 34 (box)

Container 15 (folder)

Jump-start for Tow-line Gliders

Unit Date 1989

box-folder 34 (box)

Container 16 (folder)

Langley Research Center Simulation Facilities for Manned Space Missions

Unit Date 1963

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Container 17 (folder)

Load Implications of Gust Alleviation Systems

Unit Date n.d.

box-folder 34 (box)

Container 18 (folder)

Manual for Preparation of NFFS Symposium Volume

Unit Date [1975?]

box-folder 34 (box)

Container 19 (folder)

Model aircraft articles

Unit Date 1939-1991, n.d.

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Container 1 (folder)

Extent [2 folders]

Model Airplanes and Science (talk for Armstrong School)

Unit Date n.d.

box-folder 35 (box)

Container 2 (folder)

Moments Acting on a Satellite

Unit Date 1959

box-folder 35 (box)

Container 3 (folder)

NACA Advance Confidential Reports

Unit Date 1942

box-folder 35 (box)

Container 4 (folder)

Extent [reprints]

Stalling Characteristics of the Supermarine Spitfire Va Airplane**Measurements of the Flying Qualities of a Supermarine Spitfire Va Airplane****NACA Advance Restricted Reports**

Unit Date 1942-1944

box-folder 35 (box)

Container 5-6 (folder)

Extent [reprints]

Effect of Spring and Gravity Moments in the Control System of the Longitudinal Stability of the Brewster XSBA-1 Airplane**Flight Tests of Various Tail Modifications on the Brewster XSBA-1 Airplane: I - Measurements of Flying Qualities with Original Tail Surfaces****Stability of a Body Stabilized by Fins and Suspended from an Airplane****Application of Spring Tabs to Elevator Controls****NACA Memorandum Reports**

Unit Date 1942-1944

box-folder 35 (box)

Container 7-8 (folder)

Extent [reprints]

Measurements of the Flying Qualities of A Hawker Hurricane Airplane**Flight Tests of Various Tail Modifications on the Brewster XSBA-1 Airplane: II - Measurements of Flying Qualities with Tail Configuration Number Two**

Measurements of Flying Qualities of a Curtiss SB2C-1 Airplane

NACA Reports

Unit Date 1944-1949

box-folder 35 (box)

Container 9 (folder)

Application of Spring Tabs to Elevator Controls

Appreciation and Prediction of Flying Qualities

NACA Research Memoranda

Unit Date 1950-1958

box-folder 36 (box)

Container 1-2 (folder)

Low-speed Tests of a Model Simulating the Phenomenon of Control-Surface Buzz

Ability of Pilots to Control Simulated Short-Period Yawing Oscillations

Investigation of Effect of Reduction of Valve Friction in a Power Control System by Use of a Vibrator

Review and Investigation of Unsatisfactory Control Characteristics Involving Instability of Pilot-Airplane Combination and Methods for Predicting These Difficulties from Ground Tests

Theoretical Investigation of Some Discontinuous Yaw Dampers

Analysis of an Automatic Control to Prevent Rolling Divergence

Analysis of Effects of Interceptor Roll Performance and Maneuverability on Success of Collision-course Attacks

NACA Restricted Bulletins

Unit Date 1944-1945

box-folder 36 (box)

Container 3 (folder)

Extent [reprints]

Effect of Lateral Shift of Center of Gravity

The Use of Geared Spring Tabs for Elevator Control

NACA Technical Notes

Unit Date 1946-1957

box-folder 36 (box)

Container 4-7 (folder)

An Investigation of Additional Requirements for Satisfactory Elevator Control Characteristics

Effect of Steady Rolling on Longitudinal and Directional Stability

Appreciation and Prediction of Flying Qualities

Theoretical Analysis of Oscillations of a Towed Cable

Theoretical Analysis of Some Simple Types of Acceleration Restrictors

Flight Investigation of the Effectiveness of an Automatic Aileron Trim Control Device for Personal Airplanes

Investigation by the Transonic-bump Method of a 35 [degree] Sweptback Semispan Model Equipped with a Flap Operated by a Series of Servovaness Located Ahead of and Geared to the Flap

Loads Implications of Gust-Alleviation Systems

NASA Technical Memoranda

Unit Date 1960-1990

box-folder 36 (box)

Container 8 (folder)

Research on Blunt-faced Entry Configurations at Angles of Attack between 60 [degrees] and 90 [degrees]

Comparison of Effects of Unsteady Lift and Spanwise Averaging in Flight through Turbulence

Altitude Response of Several Airplanes During Landing Approach

Effect of Structural Flexibility on the Design of Vibration-isolating Mounts for Aircraft Engines

Determination of the Pressure Drag of Airfoils by Integration of Surface Pressures

NASA Technical Note

Unit Date 1973

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Container 9 (folder)

Study of a Control System to Alleviate Aircraft Response to Horizontal and Vertical Gusts

NASA Technical Paper

Unit Date 1978-1980

box-folder 36 (box)

Container 10 (folder)

Ground Distance Covered During Airborne Horizontal Deceleration of an Airplane

Some Design Considerations for Solar-powered Aircraft

NASA Technical Report

Unit Date 1960

box-folder 36 (box)

Container 11 (folder)

The Lateral Response of Airplanes to Random Atmospheric Turbulence**Outline of lecture material available**

Unit Date 1975

box-folder 36 (box)

Container 12 (folder)

Penetration into the Wind

Unit Date n.d.

box-folder 36 (box)

Container 13 (folder)

Power Boost, Artificial Feel, and Acceleration Restrictions

Unit Date n.d.

box-folder 36 (box)

Container 14 (folder)

Power Control Systems and Control Feel Devices for Satisfactory Airplane Handling Qualities

Unit Date 1954

box-folder 36 (box)

Container 15 (folder)

Presentation to Dr. Low

Unit Date 1970

box-folder 36 (box)

Container 16 (folder)

Propeller Design Program

Unit Date 1978-1986, n.d.

box-folder 36 (box)

Container 17 (folder)

Propulsive Effects Due to Flight Through Turbulence

Unit Date 1975, n.d.

box-folder 36 (box)

Container 18 (folder)

Propulsive Effects of Radiator and Exhaust Ducting

Unit Date 1941

box-folder 36 (box)

Container 19 (folder)

Propulsive Efficiency of Tail-mounted Turbofan Engines

Unit Date 1968

box-folder 37 (box)

Container 1 (folder)

Recent Studies of Stability and Control Characteristics of Fighter Airplanes and Their Relation to Tactical Requirements

Unit Date 1952

box-folder 37 (box)

Container 2 (folder)

Recent Trends in U. S. Aeronautics and Research Technology

Unit Date 2000

box-folder 37 (box)

Container 3 (folder)

Recollections of Langley in the Forties (Langley Colloquium Series)

Unit Date 1990

box-folder 37 (box)

Container 4 (folder)

Recollections of Langley in the Forties [videocassette]

Unit Date 1990

box-folder 37 (box)

Container 5 (folder)

Recollections of Langley Memorial Aero Lab in the Forties

Unit Date 1992

box-folder 37 (box)

Container 6 (folder)

A Review and Analysis of the Applications of Gust-alleviation Systems

Unit Date 1972

box-folder 37 (box)

Container 7 (folder)

Review of Docking Studies at the Langley Research Center

Unit Date 1963

box-folder 37 (box)

Container 8 (folder)

Rubber-powered Radio-control Models

Unit Date 1968

box-folder 37 (box)

Container 9 (folder)

Samuel Pierpont Langley - Astronomer and Aeronaut

Unit Date [1992?]

box-folder 37 (box)

Container 10 (folder)

Selected Projects in Langley Research Center Guidance and Control Research

Unit Date 1977

box-folder 37 (box)

Container 11 (folder)

Similarities and Contrasts Between Ship Design and Aircraft Design

Unit Date 1955

box-folder 37 (box)

Container 12 (folder)

Simple Determination of Reynolds Number

Unit Date 1998

box-folder 37 (box)

Container 13 (folder)

Simulation Research at Langley Research Center

Unit Date 1967-1968

box-folder 37 (box)

Container 14 (folder)

Stability and Control (comments on) [audiocassette]

Unit Date n.d.

box-folder 37 (box)

Container 15 (folder)

Stability and Control Problems at Transonic and Supersonic Speeds and Problems of Aiming and Sighting Guns at Transonic Speeds

Unit Date n.d.

box-folder 37 (box)

Container 16 (folder)

Stable Platforms and Inertial Navigation Systems

Unit Date 1959

box-folder 37 (box)

Container 17 (folder)

Studies of Friction Drag and Pressure Drag of Airfoils Using the Eppler Program

Unit Date 1988, n.d.

box-folder 38 (box)

Container 1-2 (folder)

A Study of Means for Limiting the Maximum Normal Acceleration of Airplanes

Unit Date n.d.

box-folder 38 (box)

Container 3 (folder)

Symbols and Nomenclature for Model Aeronautics

Unit Date 1994, n.d.

box-folder 38 (box)

Container 4 (folder)

Theoretical Study of Means to Increase the Smoothness of Flight Through Rough Air

Unit Date n.d.

box-folder 38 (box)

Container 5 (folder)

Unsteady Lift lecture

Unit Date 1966

box-folder 38 (box)

Container 6 (folder)

Use of Models to Solve Problems of Full-size Aircraft

Unit Date [1999?]

box-folder 38 (box)

Container 7 (folder)

What's a Joule, Newton?

Unit Date n.d.

box-folder 38 (box)

Container 8 (folder)

Where Does the Lift Come From? Where Does It Go?

Unit Date n.d.

box-folder 38 (box)

Container 9 (folder)

Wind-Tunnel Study of Canard Surfaces on the Shuttle Orbiter

Unit Date 1985

box-folder 38 (box)

Container 10 (folder)

Subseries B: Subject Files

Unit Date 1927-2004

Aberdeen Ballistic Research Laboratories visit

Unit Date 1952

box-folder 38 (box)

Container 11 (folder)

Aerospace / aviation memorabilia

Unit Date 1976-1981, n.d.

box-folder 38 (box)

Container 12 (folder)

Air Scoop (Langley Memorial Aeronautical Laboratory newsletter)

Unit Date 1944-1962

box-folder 38 (box)

Container 13 (folder)

Airplane drawings

Unit Date 1963, n.d.

box-folder 38 (box)

Container 14 (folder)

American Institute of Aeronautics and Astronautics

Unit Date 1967-1995

box-folder 38 (box)

Container 15 (folder)

Apollo XI 20th anniversary

Unit Date 1989

box-folder 38 (box)

Container 16 (folder)

Award programs and correspondence

Unit Date 1962-1981

box-folder 38 (box)

Container 17 (folder)

Beech Bonanza

Unit Date 1953-1987

box-folder 39 (box)

Container 1 (folder)

Defense aircraft model plans

Unit Date 1942

box-folder 39 (box)

Container 2 (folder)

Design for Aeromodellers

Unit Date 1953

box-folder 39 (box)

Container 3 (folder)

Extent [photocopy]

Event programs and invitations

Unit Date 1963-1989

box-folder 39 (box)

Container 4 (folder)

Fairchild 22 Handbook of Instructions

Unit Date n.d.

box-folder 39 (box)

Container 5 (folder)

Experimental Aircraft Association convention

Unit Date 1982

box-folder 39 (box)

Container 6 (folder)

Free fall technique

Unit Date 1947-1995, n.d.

box-folder 39 (box)

Container 7 (folder)

Gliders - world record

Unit Date 1992-1994, n.d.

box-folder 39 (box)

Container 8 (folder)

Handbook of the National Aircraft Collection

Unit Date 1932

box-folder 39 (box)

Container 9 (folder)

Hang gliders

Unit Date n.d.

box-folder 39 (box)

Container 10 (folder)

Hang gliders - model tests [16 mm film]

Unit Date n.d.

box-folder 39 (box)

Container 11 (folder)

Hang gliders

Unit Date 1974-1976, n.d.

box-folder 39 (box)

Container 12 (folder)

Hirsch, Rene - GH-80

Unit Date 1975, n.d.

box-folder 39 (box)

Container 13 (folder)

Jex, Henry R.

Unit Date 1991-1998

box-folder 39 (box)

Container 14 (folder)

Joshi, Suresh M.

Unit Date 1988, n.d.

box-folder 39 (box)

Container 15 (folder)

Journey in Aeronautical Research - correspondence

Unit Date 1999

box-folder 39 (box)

Container 16 (folder)

Kites

Unit Date 1991, n.d.

box-folder 39 (box)

Container 17 (folder)

Kraft, Christopher C.

Unit Date 1965, n.d.

box-folder 40 (box)

Container 1 (folder)

LMAL Bulletin

Unit Date 1942-1944

box-folder 40 (box)

Container 2 (folder)

Langley 75th anniversary

Unit Date 1992

box-folder 40 (box)

Container 3 (folder)

Langley Aerospace Mechanics Division personnel list

Unit Date 1962

box-folder 40 (box)

Container 4 (folder)

Langley Colloquium: Design, Construction and Flight Testing of the Spirit of St. Louis

Unit Date 1987-1988

box-folder 40 (box)

Container 5 (folder)

Langley Researcher

Unit Date Dec 30 1966

box-folder 40 (box)

Container 6 (folder)

Langley Stability and Control Section personnel records

Unit Date 1944-1967, n.d.

box-folder 40 (box)

Container 7-9 (folder)

Larrabee, E. Eugene

Unit Date 1963-1995

box-folder 40 (box)

Container 10 (folder)

Lindbergh, Charles

Unit Date 1927-2001, n.d.

box-folder 40 (box)

Container 11 (folder)

A Longitudinal Control Feel System for In-flight Research on Response Feel - by Faber and Crane

Unit Date 1961

box-folder 40 (box)

Container 12 (folder)

Lunar Orbit and Landing Approach Simulator

Unit Date 1964-1967, n.d.

box-folder 40 (box)

Container 13 (folder)

Lunar orbit rendezvous plan

Unit Date 1961-1966, n.d.

box-folder 40 (box)

Container 14 (folder)

Man Will Never Fly Memorial Society

Unit Date 2001, n.d.

box-folder 40 (box)

Container 15 (folder)

Maxim, Hiram

Unit Date 1985-1998, n.d.

box-folder 41 (box)

Container 1 (folder)

Extent [2 folders]

Measurement of 3-dimensional shapes

Unit Date 1983, n.d.

box-folder 41 (box)

Container 2 (folder)

Model aircraft

Unit Date 1963-1993, n.d.

box-folder 41 (box)

Container 3 (folder)

Model championships

Unit Date 1988

box-folder 41 (box)

Container 4 (folder)

Modifications and Tests of Curtiss P-40 Airplane for Improvement of Ground Handling Characteristics - R. R. Gilruth and M. N. Gough

Unit Date 1940

box-folder 41 (box)

Container 5 (folder)

National Academy of Engineering election

Unit Date 1991

box-folder 41 (box)

Container 6 (folder)

National Advisory Committee for Aeronautics booklets

Unit Date 1943-1944, n.d.

box-folder 41 (box)

Container 7 (folder)

Work for Victory

NACA - LMAL and You

A Career in Aeronautical Research

Neural networks

Unit Date 1991-1993, n.d.

box-folder 41 (box)

Container 8 (folder)

Norton, Frederick H.

Unit Date 1966-1981

box-folder 41 (box)

Container 9 (folder)

Orbiting telescope

Unit Date 1964-1965

box-folder 41 (box)

Container 10 (folder)

Ornithopters

Unit Date 1981-1996, n.d.

box-folder 41 (box)

Container 11 (folder)

Patent 2,821,352: Servo vane control for aircraft

Unit Date 1954-1958

box-folder 41 (box)

Container 12 (folder)

Patent 3,104,079: Variable-geometry winged reentry vehicle

Unit Date 1959-1989, n.d.

box-folder 41 (box)

Container 13 (folder)

Patent 3,386,686: Station keeping of a gravity-gradient stabilized satellite

Unit Date 1965-1968

box-folder 42 (box)

Container 1 (folder)

Patent 4,281,384: Rim inertial measuring system

Unit Date 1981

box-folder 42 (box)

Container 2 (folder)

Patent 4,415,133: Solar-powered aircraft

Unit Date 1978-1983, n.d.

box-folder 42 (box)

Container 3 (folder)

Performance and Dynamics of Aerospace Vehicles

Unit Date 1971

box-folder 42 (box)

Container 4 (folder)

Propeller design program - foreign requests

Unit Date 1981-1982

box-folder 42 (box)

Container 5 (folder)

Propeller designs

Unit Date 1979, n.d.

box-folder 42 (box)

Container 6 (folder)

Propeller dynamics

Unit Date 1994

box-folder 42 (box)

Container 7 (folder)

Requirements for Satisfactory Flying Qualities - by R. R. Gilruth

Unit Date 1941

box-folder 42 (box)

Container 8 (folder)

SBD-5 Aileron failure - Flight 21 [16 mm film]

Unit Date n.d.

box-folder 42 (box)

Container 9 (folder)

Sand dunes - Nag's Head, North Carolina

Unit Date 1974-1996, n.d.

box-folder 42 (box)

Container 10 (folder)

Shuttle landing dynamics

Unit Date 1977-1979, n.d.

box-folder 43 (box)

Container 1 (folder)

Shuttle trainer aircraft

Unit Date 1973-1976

box-folder 43 (box)

Container 2 (folder)

Solar sail**Unit Date** 1977**box-folder** 43 (box)**Container** 3 (folder)**Space News Roundup****Unit Date** 1962-1963**box-folder** 43 (box)**Container** 4 (folder)**Steam-powered helicopter (1842 design)****Unit Date** 1984-1986, n.d.**box-folder** 43 (box)**Container** 5 (folder)**Supersonic glider with folding canard****Unit Date** 1972, n.d.**box-folder** 43 (box)**Container** 6 (folder)**The Systems-Dynamics Research Airplane - by S. A. Sjoberg****Unit Date** 1958**box-folder** 43 (box)**Container** 7 (folder)**Thermic sniffer theory and calibration****Unit Date** 1971, n.d.**box-folder** 43 (box)**Container** 8 (folder)**Thick suction airfoils****Unit Date** 1991, n.d.**box-folder** 43 (box)**Container** 9 (folder)**Thompson, Floyd L.****Unit Date** 1937-1988**box-folder** 43 (box)**Container** 10 (folder)**Trimmed drag - Milton D. McLaughlin****Unit Date** 1977-1982**box-folder** 43 (box)**Container** 11 (folder)**Unsteady lift****Unit Date** n.d.**box-folder** 43 (box)**Container** 12 (folder)

Vibration-isolating mounts for radial engines

Unit Date 1984-1987

box-folder 43 (box)

Container 13 (folder)

Virginia Air and Space Center

Unit Date 1988-1997, n.d.

box-folder 43 (box)

Container 14 (folder)

Weiss, Herbert K.

Unit Date 1939-1962, n.d.

box-folder 43 (box)

Container 15 (folder)

White Pelican Project: world's largest paper airplane

Unit Date 1987-1992, n.d.

box-folder 43 (box)

Container 16 (folder)

Extent [2 folders]

Wind tunnel research

Unit Date 1948-1967

box-folder 43 (box)

Container 17 (folder)

Windmill boat

Unit Date 1965

box-folder 43 (box)

Container 18 (folder)

Wing Tips (NACA Lewis Flight Propulsion Laboratory newsletter)

Unit Date 1945-1948

box-folder 43 (box)

Container 19 (folder)

Wright Brothers

Unit Date 1962-2004, n.d.

box-folder 44 (box)

Container 1 (folder)

Extent [3 folders]

Young Men in Aeronautics: A Twenty-year Progress Report of the Lawrence B. Sperry Award

Unit Date 1957

box-folder 44 (box)

Container 2 (folder)

Extent [2 items]

Unidentified 16 mm film

Unit Date n.d.

box-folder 44 (box)

Container 3 (folder)

Subseries C: Correspondence Files

Unit Date 1943-2008

Abzug, Malcolm

Unit Date 1994-2004

box-folder 44 (box)

Container 4 (folder)

Alaback, G. James

Unit Date 1992-1995

box-folder 44 (box)

Container 5 (folder)

Bacon, Jack

Unit Date 1990

box-folder 44 (box)

Container 6 (folder)

Baker, Paul S.

Unit Date 1988-1991

box-folder 44 (box)

Container 7 (folder)

Bauer, Andrew B.

Unit Date 1993-1994

box-folder 44 (box)

Container 8 (folder)

Baxter, Dick

Unit Date 1994

box-folder 44 (box)

Container 9 (folder)

Beatty, J. Roger

Unit Date 1976

box-folder 45 (box)

Container 1 (folder)

Bennett, Jim

Unit Date 1980

box-folder 45 (box)

Container 2 (folder)

Bennett, Leon**Unit Date** 1985**box-folder** 45 (box)**Container** 3 (folder)**Bradley, Jim****Unit Date** 1986**box-folder** 45 (box)**Container** 4 (folder)**Brand, Rolf****Unit Date** 1981**box-folder** 45 (box)**Container** 5 (folder)**Breznikar, Radoslav****Unit Date** 1987, n.d.**box-folder** 45 (box)**Container** 6 (folder)**Brill, Yvonne (NAE)****Unit Date** 1995**box-folder** 45 (box)**Container** 7 (folder)**Brocklehurst, Alan****Unit Date** 1985-1986, n.d.**box-folder** 45 (box)**Container** 8 (folder)**Carmichael, Bruce****Unit Date** 1988-1995, n.d.**box-folder** 45 (box)**Container** 9 (folder)**Chana, William F.****Unit Date** 1987-1988**box-folder** 45 (box)**Container** 10 (folder)**Chernoff, Max****Unit Date** 1983-1986**box-folder** 45 (box)**Container** 11 (folder)**Cole, Hank****Unit Date** 1984-1985**box-folder** 45 (box)**Container** 12 (folder)

Colson, Stanley V.

Unit Date 1994

box-folder 45 (box)

Container 13 (folder)

Cone, Don

Unit Date 1965

box-folder 45 (box)

Container 14 (folder)

Crowley, R. T.

Unit Date 1979

box-folder 45 (box)

Container 15 (folder)

Deshaye, Pat

Unit Date 1985

box-folder 45 (box)

Container 16 (folder)

Dodds, Robert P.

Unit Date 1978-1993

box-folder 45 (box)

Container 17 (folder)

Douglas, Debbie

Unit Date 1999-2002

box-folder 45 (box)

Container 18 (folder)

Edwards, John C.

Unit Date 1963

box-folder 45 (box)

Container 19 (folder)

Eggleston, Jack

Unit Date 1993-1994

box-folder 45 (box)

Container 20 (folder)

Eppler, Richard

Unit Date 1983

box-folder 45 (box)

Container 21 (folder)

Fife, Bob

Unit Date 1991

box-folder 45 (box)

Container 22 (folder)

Fogel, Larry**Unit Date** 1976**box-folder** 45 (box)**Container** 23 (folder)**Foshag, William****Unit Date** 1996**box-folder** 45 (box)**Container** 24 (folder)**Gale, Ferdi****Unit Date** 1976-1981**box-folder** 45 (box)**Container** 25 (folder)**Ganser, Ronald****Unit Date** 1987**box-folder** 45 (box)**Container** 26 (folder)**Gill, John D.****Unit Date** 1980**box-folder** 45 (box)**Container** 27 (folder)**Gilruth, Robert R.****Unit Date** n.d.**box-folder** 45 (box)**Container** 28 (folder)**Girsberger, Rolf****Unit Date** 1979-1982**box-folder** 45 (box)**Container** 29 (folder)**Goldsberg, Carl****Unit Date** 1980**box-folder** 45 (box)**Container** 30 (folder)**Goldschmied, Fabio R.****Unit Date** 1990**box-folder** 45 (box)**Container** 31 (folder)**Good, Walter A.****Unit Date** 1989-1996**box-folder** 45 (box)**Container** 32 (folder)

Graham, Dunstan**Unit Date** 1949**box-folder** 45 (box)**Container** 33 (folder)**Gremmer, Hans****Unit Date** 1986**box-folder** 46 (box)**Container** 34 (folder)**Gue, Frank****Unit Date** 1979-1986**box-folder** 45 (box)**Container** 35 (folder)**Hannan, Bill****Unit Date** 1983-1994**box-folder** 45 (box)**Container** 36 (folder)**Harlan, Raymond B.****Unit Date** 1979**box-folder** 45 (box)**Container** 37 (folder)**Hatschek, R. L.****Unit Date** 1988**box-folder** 45 (box)**Container** 38 (folder)**Hill, Maynard****Unit Date** 1984-2003, n.d.**box-folder** 45 (box)**Container** 39 (folder)**Hirsch, Rene****Unit Date** 1979-1995, n.d.**box-folder** 45 (box)**Container** 40 (folder)**Italiano, A. J.****Unit Date** 1981-1985**box-folder** 45 (box)**Container** 41 (folder)**Jarrett, Philip****Unit Date** 1985-1988**box-folder** 45 (box)**Container** 42 (folder)

Jones, David W.

Unit Date 1967-1970

box-folder 45 (box)

Container 43 (folder)

Kelley, Herbert L.

Unit Date 1988-1992

box-folder 45 (box)

Container 44 (folder)

Keshishian, Harry

Unit Date n.d.

box-folder 45 (box)

Container 46 (folder)

Kiker, John W.

Unit Date 2002

box-folder 45 (box)

Container 47 (folder)

Kraft, Christopher C. Jr.

Unit Date 1978-1980

box-folder 45 (box)

Container 48 (folder)

Kuhrt, Wesley A.

Unit Date n.d.

box-folder 45 (box)

Container 49 (folder)

Lardinois, Ryan

Unit Date 1991-1993, n.d.

box-folder 46 (box)

Container 1 (folder)

Larrabee, Eugene

Unit Date 1949-1997

box-folder 46 (box)

Container 2 (folder)

Lee, Edward R.

Unit Date 1980-1987

box-folder 46 (box)

Container 3 (folder)

Lin, Charissa

Unit Date 1994

box-folder 46 (box)

Container 4 (folder)

Linstrum, Dave

Unit Date 1986

box-folder 46 (box)

Container 5 (folder)

Mann, Peter M.

Unit Date 1993

box-folder 46 (box)

Container 6 (folder)

Mattill, John I.

Unit Date 1988

box-folder 46 (box)

Container 7 (folder)

McBride, J. Wallace

Unit Date 1981-1993

box-folder 46 (box)

Container 8 (folder)

McCombs, William F.

Unit Date 1993-1995

box-folder 46 (box)

Container 9 (folder)

McCutcheon, Charles

Unit Date 1989-1995, n.d.

box-folder 46 (box)

Container 10 (folder)

McRuer, Duane T.

Unit Date 1995

box-folder 46 (box)

Container 11 (folder)

Meuser, Robert B.

Unit Date 1975-2000, n.d.

box-folder 46 (box)

Container 12 (folder)

Michael, William H. Jr.

Unit Date 1982

box-folder 46 (box)

Container 13 (folder)

Michel, Peter

Unit Date 1988

box-folder 46 (box)

Container 14 (folder)

Mitrovich, M.**Unit Date** 1980**box-folder** 46 (box)**Container** 15 (folder)**Monson, Donald****Unit Date** 1979**box-folder** 46 (box)**Container** 16 (folder)**Mooney, Walt****Unit Date** 1988**box-folder** 46 (box)**Container** 17 (folder)**Morris, Gilbert****Unit Date** 1986-1987**box-folder** 46 (box)**Container** 18 (folder)**Moulton, R. G.****Unit Date** 1976**box-folder** 46 (box)**Container** 19 (folder)**Nicks, Oran W.****Unit Date** 1974-1992**box-folder** 46 (box)**Container** 20 (folder)**Ober, Shatswell****Unit Date** 1983**box-folder** 46 (box)**Container** 21 (folder)**Ogden, Thomas G.****Unit Date** 1994**box-folder** 46 (box)**Container** 22 (folder)**Opdycke, Leonard E.****Unit Date** 1988-2004, n.d.**box-folder** 46 (box)**Container** 23 (folder)**Oringer, Sanford****Unit Date** 1968-1996**box-folder** 46 (box)**Container** 24 (folder)

Orrell, John

Unit Date 1978

box-folder 46 (box)

Container 25 (folder)

Padfield, Gareth

Unit Date 2002-2004

box-folder 46 (box)

Container 26 (folder)

Patrick, Tom J.

Unit Date 1985-1987

box-folder 46 (box)

Container 27 (folder)

Pearce, George E. Jr.

Unit Date 1988-1994

box-folder 46 (box)

Container 28 (folder)

Penton, D. N.

Unit Date 1987-1988

box-folder 46 (box)

Container 29 (folder)

Perkins, Courtland

Unit Date 1969

box-folder 46 (box)

Container 30 (folder)

Persh, Jerome

Unit Date 1978

box-folder 46 (box)

Container 31 (folder)

Pieromarchi, Bruno

Unit Date 1950-1955

box-folder 46 (box)

Container 32 (folder)

Pond, Bertram

Unit Date 1989-1995, n.d.

box-folder 46 (box)

Container 33 (folder)

Radcliffe, Lynn

Unit Date 1975-2004, n.d.

box-folder 47 (box)

Container 1 (folder)

Rash, Fred H.

Unit Date 1987-1988, n.d.

box-folder 47 (box)

Container 2 (folder)

Richmond, James

Unit Date 1987

box-folder 47 (box)

Container 3 (folder)

Rodensky, Erving

Unit Date 1995

box-folder 47 (box)

Container 4 (folder)

Ryanski, Edmund G.

Unit Date 1994-1995

box-folder 47 (box)

Container 5 (folder)

Selig, Michael

Unit Date 1983-1984, n.d.

box-folder 47 (box)

Container 6 (folder)

Sherlock, Stuart

Unit Date 1996-2008, n.d.

box-folder 47 (box)

Container 7 (folder)

Simons, Martin

Unit Date 1983-1987

box-folder 47 (box)

Container 8 (folder)

Smith, A. M. O.

Unit Date 1994

box-folder 47 (box)

Container 9 (folder)

Steinmeyer, Peter

Unit Date 1993-1994

box-folder 47 (box)

Container 10 (folder)

Strack, K. J.

Unit Date 1984

box-folder 47 (box)

Container 11 (folder)

Teiser, Eugene S.

Unit Date 1976

box-folder 47 (box)

Container 12 (folder)

Tenny, Bud

Unit Date 1964-1969

box-folder 47 (box)

Container 13 (folder)

Thomas, Don

Unit Date 1989

box-folder 47 (box)

Container 14 (folder)

Turner, Bill

Unit Date 1993

box-folder 47 (box)

Container 15 (folder)

Vogelsang, William

Unit Date 1988

box-folder 47 (box)

Container 16 (folder)

von Flotow, Andreas

Unit Date 1988

box-folder 47 (box)

Container 17 (folder)

Voorhees, John

Unit Date 1988

box-folder 47 (box)

Container 18 (folder)

Walker, John L.

Unit Date 1985

box-folder 47 (box)

Container 19 (folder)

Wantzenriether, Jean

Unit Date 1983

box-folder 47 (box)

Container 20 (folder)

Ward, Lou

Unit Date 1990-1991, n.d.

box-folder 47 (box)

Container 21 (folder)

Warner, Bill**Unit Date** 1994**box-folder** 47 (box)**Container** 22 (folder)**Weinreich, Chris****Unit Date** 1993-1997, n.d.**box-folder** 47 (box)**Container** 23 (folder)**Weiss, Herbert K.****Unit Date** 1943-2003, n.d.**box-folder** 47 (box)**Container** 24a-24c (folder)**box-folder** 48 (box)**Container** 1 (folder)**Extent** [7 folders]**Westbrook, Charles****Unit Date** 1995**box-folder** 48 (box)**Container** 2 (folder)**Whipple, Ray****Unit Date** 1993, n.d.**box-folder** 48 (box)**Container** 3 (folder)**Wilson, Douglass****Unit Date** 1977-1986**box-folder** 48 (box)**Container** 4 (folder)**Withington, Betsy and Bob****Unit Date** 1994**box-folder** 48 (box)**Container** 5 (folder)**Wolkovitch, Julian****Unit Date** 1984**box-folder** 48 (box)**Container** 6 (folder)**Xenakis, George****Unit Date** 1988**box-folder** 48 (box)**Container** 7 (folder)

Youngren, Harold**Unit Date** 1994**box-folder** 48 (box)**Container** 8 (folder)**Zaic, Frank****Unit Date** 1983-2005, n.d.**box-folder** 48 (box)**Container** 9 (folder)**Unidentified correspondents****Unit Date** 1950-1988, n.d.**box-folder** 48 (box)**Container** 10 (folder)**Subseries D: Photographs****Unit Date** 1932-1990**Phillips studio portraits****Unit Date** [1963?]-1986, n.d.**box-folder** 48 (box)**Container** 11 (folder)**Phillips snapshots****Unit Date** ca. 1932-ca. 1970**box-folder** 49 (box)**Container** 1 (folder)**President's Award for Distinguished Federal Civilian Service color transparencies****Unit Date** 1979**box-folder** 49 (box)**Container** 2 (folder)**Award presentations****Unit Date** 1944-1982, n.d.**box-folder** 49 (box)**Container** 3 (folder)**Viola Phillips touring Johnson Space Center****Unit Date** n.d.**box-folder** 49 (box)**Container** 4 (folder)**Unidentified banquet / reception****Unit Date** [1976?]**box-folder** 49 (box)**Container** 5 (folder)

Unidentified banquet

Unit Date n.d.

box-folder 49 (box)

Container 6 (folder)

Meetings

Unit Date 1970, n.d.

box-folder 49 (box)

Container 7 (folder)

Receptions

Unit Date 1977-1990, n.d.

box-folder 49 (box)

Container 8 (folder)

Virginia H. Knauer (special assistant to the president for consumer affairs) Langley visit

Unit Date 1976

box-folder 49 (box)

Container 9 (folder)

[NACA test pilots?] (Pilgrim, Whitten, C. Mathews, Raskley, D'Orazio, Reeder)

Unit Date n.d.

box-folder 49 (box)

Container 10 (folder)

Unidentified crew with biplane

Unit Date ca. 1930

box-folder 49 (box)

Container 11 (folder)

Langley Research Center color transparencies

Unit Date n.d.

box-folder 49 (box)

Container 12 (folder)

Subseries E: Personal Life, Education, and Career

Unit Date 1918-2008

Biographical materials and ephemera

Unit Date 1918-1989, n.d.

box-folder 49 (box)

Container 13 (folder)

Newsclippings

Unit Date 1944-1992, n.d.

box-folder 49 (box)

Container 14 (folder)

Diaries

Unit Date 1929-[2007?]

box-folder 50 (box)

Container 1-4 (folder)

box-folder 51 (box)

Container 1-5 (folder)

box-folder 52 (box)

Container 1-2 (folder)

Travel diary - England

Unit Date 1966

box-folder 52 (box)

Container 3 (folder)

Appointment / address book

Unit Date 1978

box-folder 52 (box)

Container 4 (folder)

Belmont High School

Unit Date 1928-1939, n.d.

box-folder 52 (box)

Container 5 (folder)

Massachusetts Institute of Technology

Unit Date 1935-1942, n.d.

box-folder 52 (box)

Container 6 (folder)

box-folder 53 (box)

Container 1 (folder)

Extent [4 folders]

Technique (MIT annual)

Unit Date 1939

box-folder 53 (box)

Container 2 (folder)

Massachusetts Institute of Technology

Unit Date 1970-1999, n.d.

box-folder 53 (box)

Container 3 (folder)

Trip to North Carolina State University

Unit Date 1988

box-folder 54 (box)

Container 1 (folder)

Trip to Oklahoma City and San Antonio

Unit Date 1989

box-folder 54 (box)

Container 2 (folder)

Trip to San Diego

Unit Date 1988

box-folder 54 (box)

Container 3 (folder)

Trip to Syracuse and Binghamton

Unit Date 1989

box-folder 54 (box)

Container 4 (folder)

Retirement social scrapbook

Unit Date 1979

box-folder 54 (box)

Container 5 (folder)

Extent [2 folders]

Retirement congratulatory notes

Unit Date 1979

box-folder 54 (box)

Container 6 (folder)

Retirement scrapbook

Unit Date 1979

box-folder 54 (box)

Container 7 (folder)

Academy of Model Aeronautics Brainbuster Club / gold member plaque

Unit Date n.d.

box-folder 54 (box)

Container 8 (folder)

Allan H. Taylor Memorial Award (Hampton Roads Section, AIAA) plaque

Unit Date 1996

box-folder 54 (box)

Container 9 (folder)

AIAA Dryden Lecture in Research medal

Unit Date n.d.

box-folder 54 (box)

Container 10 (folder)

American Institute of Aeronautics and Astronautics medal

Unit Date n.d.

box-folder 54 (box)

Container 11 (folder)

American Astronautical Society Fellowship plaque

Unit Date 1985

box-folder 55 (box)

Container 1 (folder)

Experimental Aircraft Association Special Recognition Award plaque

Unit Date 1982

box-folder 55 (box)

Container 2 (folder)

Langley Research Center Outstanding Volunteer Service Group Award plaque

Unit Date 1981

box-folder 55 (box)

Container 3 (folder)

Langley Research Center Special Achievement Award plaque

Unit Date 1981

box-folder 55 (box)

Container 4 (folder)

NASA service medals

Unit Date 1979-1987, n.d.

box-folder 55 (box)

Container 5 (folder)

Extent [3 items]

National Free Flight Society plaque

Unit Date [1987?]

box-folder 56 (box)

Container 1 (folder)

Peninsula Engineer of the Year Award (Engineers' Club of the Virginia Peninsula)

Unit Date 1996

box-folder 56 (box)

Container 2 (folder)

President's Distinguished Federal Civilian Service Medal

Unit Date n.d.

box-folder 56 (box)

Container 3 (folder)

Patent 4,281,384 (Rim inertial measuring system) plaque

Unit Date [1981?]

box-folder 56 (box)

Container 4 (folder)

Patent 4,415,133 (Solar-powered aircraft) plaque

Unit Date [1983?]

box-folder 56 (box)

Container 5 (folder)

Certificate awards

Unit Date 1929-2006

box-folder 56 (box)

Container 6 (folder)

box-folder 57 (box)

Container 1 (folder)

American Institute of Aeronautics and Astronautics 15th Technical Symposium plaque

Unit Date 1989

box-folder 57 (box)

Container 2 (folder)

NACA plaque

Unit Date 1979

box-folder 57 (box)

Container 3 (folder)

Plaque bearing control position transmitter used in flight control testing

Unit Date 1950

box-folder 57 (box)

Container 4 (folder)

Subseries F: Oversize Materials**Photograph: attendees of the NACA 75th anniversary reception**

Unit Date 1990

oversize 1 (folder)

Photograph: 10th reunion, MIT class of 1939

Unit Date 1949

oversize 1 (folder)

Belmont High School diploma

Unit Date 1932

oversize 1 (folder)

Special Award - Approach and Landing Test Program

Unit Date 1978

oversize 1 (folder)

President's Award for Distinguished Federal Civilian Service

Unit Date 1979

oversize 1 (folder)