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National Air and Space Museum

Jet Propulsion Laboratory Publications Collection

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1999



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Collection Overview

Repository:	National Air and Space Museum Archives
Title:	Jet Propulsion Laboratory Publications Collection
Date:	1947-1980 (bulk 1960-1974)
Identifier:	NASM.XXXX.0612
Creator:	Jet Propulsion Laboratory. University of California.
Extent:	32 Cubic feet (71 boxes)
Language:	English .
Summary:	This collection consists of publications issued by the Jet Propulsion Laboratory documenting JPL's work in jet and rocket propulsion, launch vehicle development, and planetary reconnaissance. Most of the material relates to work performed under NASA auspices, but significant material from Army- and Air Force-related research is also included.

Administrative Information

Acquisition Information

XXXX-0612, Unknown

Other Finding Aids

http://www.nasm.si.edu/research/arch/findaids/pdf/XXXX0612_JPL.pdf

Preferred Citation

Jet Propulsion Laboratory Publications Collection, Acc. XXXX.0612, National Air and Space Museum, Smithsonian Institution.

Restrictions

No restrictions on access

Historical Note

The Jet Propulsion Laboratory (JPL) was established at the California Institute of Technology as the Guggenheim Analytical Laboratory in 1936 to investigate a variety of aeronautics-related topics. By the end of World War II the work at JPL, as it was then known, concentrated primarily on jet and rocket propulsion research under the auspices of the United States Army. JPL was transferred from Army to National Aeronautics and Space Administration (NASA) control on the establishment of the latter in 1958. Under NASA auspices, JPL research expanded into trajectory analysis, planetary reconnaissance, and space communications.

Scope and Content Note

This collection consists of reports published by the Jet Propulsion Laboratory and gathered by the staff of the National Air and Space Museum (NASM) from a variety of sources. The reports cover a broad range of subjects investigated at JPL over the period 1947-1980, with the bulk of the material from the NASA era, 1960-1974. This collection is in no way a complete set of all JPL publications, even for the document series represented. Following the transfer of the Bellcomm Inc. Technical Library Collection (now National Air and Space Archives Accession XXXX-0093) to the NASM in the early 1970s, Museum staff attempted to flesh out the JPL Publications Collection with materials from Bellcomm. Those items which could be positively identified as coming from the Bellcomm Collection (approximately 5½ cubic feet of material) were returned to that collection during processing.

JPL publications were numbered consecutively in series based on the contract under which the work was performed. A typical publication number would be "PR 4-112," in which "PR" is an abbreviation for "Progress Report," "4" is the contract-based numerical prefix (4- was assigned to work performed under Ordnance Dept contract W-04-200-ORD-445), and "112" indicates the 112th publication of this kind issued under this contract. With the transfer of JPL to NASA control and the large number of reports expected under NASA contract, numerical prefixes were assigned to different types of publications, for instance 32- for Technical Reports, 33- for Technical Memoranda, and so forth.

JPL compiled subject bibliographies for work done under NASA contracts (primarily contracts NASw-6 and NAS7-100) and published these in the 39- series of documents, a partial set of which is contained within this collection. Further subject reference to JPL reports is available in *Aeronautical Information: Abstracts*, also published by JPL. A partial set of the abstracts is contained in the Bellcomm Collection.

Series Organization

The publications in this collection are arranged by report number and type.

- Series 1: Combined Bimonthly Summaries (1947-1954; *1.35 cubic feet*)
- Series 2: 1- Prefix Publications (Progress Reports; 1950-1952; *2 items*)
- Series 3: 4- Prefix Publications (Summaries, Progress Reports, Reports; 1947-1949; *.25 cubic feet*)
- Series 4: 9- Prefix Publications (Progress Reports; 1949-1951; *4 items*)
- Series 5: 20- Prefix Publications (Progress Reports, Reports; 1951-1954; *4 items*)
- Series 6: 32- Prefix Publications (Technical Reports; 1960-1976; *24.75 cubic feet*)
- Series 7: 33- Prefix Publications (Technical Memoranda; 1961-1976; *1.5 cubic feet*)
- Series 8: 34- Prefix Publications (Technical Releases; 1960; *3 items*)
- Series 9: 36- Prefix Publications (Research Summaries; 1961-1962; *5 items*)
- Series 10: 37- Prefix Publications (Space Program Summaries; 1961-1970; *5.75 cubic feet*)
- Series 11: 39- Prefix Publications (Bibliographies; 1964-1980; *.35 cubic feet*)
- Series 12: 42- Prefix Publications (Deep Space Network Progress Reports; 1977; *2 items*)
- Series 13: 43- Prefix Publications (Special Publications; 1974-1976; *6 items*)
- Series 14: 77- Prefix Publications (1978; *1 item*)
- Series 15: External Publications (1959; *4 items*)
- Series 16: Miscellaneous Publications (1973; *2 items*)

Citations

All publications are listed in the format:

Number. Title (Author; *Journal*, Date).

Example:

TR 32-1221. Reaction of O(1D) with H₂ and the Reactions of H and OH with Ozone (DeMore; *Journal of Chemical Physics*, 15 Oct 1967)

Titles appear as shown on the title page of the document. The last name(s) of the author(s) are listed in the order given; the full name or initials are listed in the Author Index of this finding aid. A journal title only appears when the material was originally published as a periodical or scientific journal article and that information appears on the document. All publication dates are shown in day-month-year order. The document type is shown as an abbreviation preceding the document number:

Document Type :

Bibl: Bibliography
BS: Bimonthly Summary
CBS: Combined Bimonthly Summary
EP : External Publication
MS: Monthly Summary
PR: Progress Report
Rpt: Report
RS: Research Summary
SP: Special Publication
SPS: Space Program Summary
TM: Technical Memorandum
TR: Technical Report
TReI: Technical Release

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

Astronautics
Jet propulsion
Launch vehicles (Astronautics)

Types of Materials:

Publications

Names:

Jet Propulsion Laboratory. University of California.
United States. National Aeronautics and Space Administration

Places:

Outer space -- Exploration

Container Listing

Series 1: Combined Bimonthly Summaries, 1947-1954

1.35 cubic feet

Scope and Contents: In September 1947, JPL began publication of Combined Summaries to provide an overall view of the research and development activities of the Lab, regardless of the contract under which the work was conducted.

Box 1, Folder 1	CBS 1. June 20, 1947 to August 20, 1947, 15 September 1947
Box 1, Folder 2	CBS 2. August 20, 1947 to October 20, 1947, 15 November 1947
Box 1, Folder 3	CBS 3. October 20, 1947 to December 20, 1947, 15 January 1948
Box 1, Folder 4	CBS 4. December 20, 1947 to February 20, 1948, 15 March 1948
Box 1, Folder 5	CBS 5. February 20, 1948 to April 20, 1948, 15 May 1948
Box 1, Folder 6	CBS 6. April 20, 1948 to June 20, 1948, 15 July 1948
Box 1, Folder 7	CBS 7. June 20, 1948 to August 20, 1948, 15 September 1948
Box 1, Folder 8	CBS 8. August 20, 1948 to October 20, 1948, 15 November 1948
Box 1, Folder 9	CBS 9. October 20, 1948 to December 20, 1948, 15 January 1949
Box 1, Folder 10	CBS 10. December 20, 1948 to February 20, 1949, 15 March 1949
Box 2, Folder 1	CBS 11. February 20, 1949 to April 20, 1949, 15 May 1949
Box 2, Folder 2	CBS 12. April 20, 1949 to June 20, 1949, 15 July 1949
Box 2, Folder 3	CBS 13. June 20, 1949 to August 20, 1949, 15 September 1949
Box 2, Folder 4	CBS 14. August 20, 1949 to October 20, 1949, 15 November 1949
Box 2, Folder 5	CBS 15. October 20, 1949 to December 20, 1949, 15 January 1950
Box 2, Folder 6	CBS 16. December 20, 1949 to February 20, 1950, 15 March 1950
Box 2, Folder 7	CBS 17. February 20, 1949 to April 20, 1950, 15 May 1950
Box 2, Folder 8	CBS 18. April 20, 1950 to June 20, 1950, 15 July 1950

Box 2, Folder 9	CBS 19. June 20, 1950 to August 20, 1950, 15 September 1950
Box 2, Folder 10	CBS 19A. June 20, 1950 to August 20, 1950 (Supplement to Combined Bimonthly Summary No.19), 15 September 1950
Box 2, Folder 11	CBS 20. August 20, 1950 to October 20, 1950, 15 November 1950
Box 2, Folder 12	CBS 20A. August 20, 1950 to October 20, 1950 (Supplement to Combined Bimonthly Summary No.20), 15 November 1950
Box 2, Folder 13	CBS 21. October 20, 1950 to December 20, 1950, 15 January 1951
Box 2, Folder 14	CBS 21A. October 20, 1950 to December 20, 1950 (Supplement to Combined Bimonthly Summary No.21), 15 January 1951
Box 2, Folder 15	CBS 22. December 20, 1950 to February 20, 1951, 15 March 1951
Box 2, Folder 16	CBS 22A. December 20, 1950 to February 20, 1951 (Supplement to Combined Bimonthly Summary No.22), 15 March 1951
Box 2, Folder 17	CBS 23. February 20, 1951 to April 20, 1951, 15 May 1951
Box 2, Folder 18	CBS 23A. February 20, 1951 to April 20, 1951 (Supplement to Combined Bimonthly Summary No.23), 15 May 1951
Box 2, Folder 19	CBS 24. April 20, 1951 to June 20, 1951, 15 July 1951
Box 2, Folder 20	CBS 24A. April 20, 1951 to June 20, 1951 (Supplement to Combined Bimonthly Summary No.24), 15 July 1951
Box 2, Folder 21	CBS 25. June 20, 1951 to August 20, 1951, 15 September 1951
Box 2, Folder 22	CBS 25A. June 20, 1951 to August 20, 1951 (Supplement to Combined Bimonthly Summary No.25), 15 September 1951
Box 2, Folder 23	CBS 26. August 20, 1951 to October 20, 1951, 15 November 1951
Box 2, Folder 24	CBS 26A. August 30, 1951 to October 30, 1951 (Supplement to Combined Bimonthly Summary No.26), 15 November 1951
Box 3, Folder 1	CBS 27. October 20, 1951 to December 20, 1951, 15 January 1952
Box 3, Folder 2	CBS 27A. October 30, 1951 to December 30, 1951 (Supplement to Combined Bimonthly Summary No.27), 15 January 1952
Box 3, Folder 3	CBS 28. December 20, 1951 to February 20, 1952, 30 January 1952

Box 3, Folder 4	CBS 28A. December 30, 1951 to February 29, 1952 (Supplement to Combined Bimonthly Summary No.28), 31 March 1952
Box 3, Folder 5	CBS 29. February 20, 1952 to April 20, 1952, 20 May 1952
Box 3, Folder 6	CBS 29A. February 29, 1952 to April 30, 1952 (Supplement to Combined Bimonthly Summary No.29), 31 May 1952
Box 3, Folder 7	CBS 30. April 20, 1952 to June 20, 1952, 20 July 1952
Box 3, Folder 8	CBS 31. June 20, 1952 to August 20, 1952, 20 September 1952
Box 3, Folder 9	CBS 32. August 20, 1952 to October 20, 1952, 20 November 1952
Box 3, Folder 10	CBS 33. October 20, 1952 to December 20, 1952, 20 January 1953
Box 3, Folder 11	CBS 34. December 20, 1952 to February 20, 1953, 20 March 1953
Box 3, Folder 12	CBS 35. February 20, 1952 to April 20, 1953, 20 May 1953
Box 3, Folder 13	CBS 36. April 20, 1953 to June 20, 1953, 20 July 1953
Box 3, Folder 14	CBS 37. June 20, 1953 to August 20, 1953, 20 September 1953
Box 3, Folder 15	CBS 38. August 20, 1953 to October 20, 1953, 20 November 1953
Box 3, Folder 16	CBS 39. October 20, 1953 to December 20, 1953, 20 January 1954
Box 3, Folder 17	CBS 40. December 20, 1953 to February 20, 1954, 20 March 1954
Box 3, Folder 18	CBS 41. February 20, 1954 to April 20, 1954, 20 May 1954
Box 3, Folder 19	CBS 42. April 20, 1954 to June 20, 1954, 20 July 1954
Box 3, Folder 20	CBS 43. June 20, 1954 to August 20, 1954, 20 September 1954
Box 3, Folder 21	CBS 44. August 20, 1954 to October 20, 1954, 20 November 1954

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Series 2: 1- Prefix Publications, 1950-1952

2 items

Scope and Contents: 1- prefix publications resulted from work primarily performed for the Air Materiel Command, United States Air Force under contract W-535-ac-20260.

Box 3, Folder 22 PR 1-69. An Exploratory Investigation of Mixtures of Hydrazine and Ammonia as Rocket Fuels (Thackery, Canright, and Typaldos), 12 July 1950

Box 3, Folder 23 PR 1-80. A Preliminary Investigation of the Liquid Fluorine-Liquid Ammonia System (Hatcher), 14 April 1952

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Series 3: 4- Prefix Publications, 1947-1949

.25 cubic feet

Scope and Contents: 4- prefix publications resulted from work primarily performed for the Ordnance Department, United States Army, under contract W-04-200-ORD-455.

Box 4, Folder 1	MS 4-32. ORDCIT Project, January 25, 1947 to February 25, 1947, 1 March 1947
Box 4, Folder 2	MS 4-33. ORDCIT Project, February 25, 1947 to March 25, 1947, 1 April 1947
Box 4, Folder 3	MS 4-34. ORDCIT Project, March 25, 1947 to April 25, 1947, 1 May 1947
Box 4, Folder 4	BS 4-35. ORDCIT Project, April 25, 1947 to June 25, 1947, 1 July 1947
Box 4, Folder 5	PR 4-67. An Investigation of the White Fuming Nitric Acid-Furfuryl Alcohol Rocket Propellant (Boden and Briglio), 11 May 1948
Box 4, Folder 6	PR 4-78. An Investigation of the RFNA-Hydrazine Rocket Propellant Combination (Briglio), 18 August 1948
Box 4, Folder 7	PR 4-112. The Design of the Axial-Cooled Rocket Motor for the Corporal E (Denison and Hamlin), 29 August 1949
Box 4, Folder 8	Rpt 4-29. The Relative Importance of Specific Impulse and Propellant Density for Large Rockets (Canright), 7 January 1947
Box 4, Folder 9	Rpt 4-33. Experimental Study of Nitromethane Rocket Motors with Varying Fineness Ratio, Characteristic Length, and Chamber Pressure (Foster), 27 May 1947
Box 4, Folder 10	Rpt 4-48. Experimental Investigation of Gaseous Hydrogen and Liquid Oxygen in a Rocket Motor of 100-Pound Thrust (Baker), 14 January 1949
Box 4, Folder 11	Rpt 4-53. Regenerative Cooling Tests of Rocket Motors Using Liquid Hydrogen and Liquid Oxygen (Baker), 11 August 1949

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Series 4: 9- Prefix Publications, 1949-1951

4 items

Scope and Contents: 9- prefix publications resulted from work primarily performed for the Ordnance Department, United States Army under contract W-04-200-ORD-1482.

Box 4, Folder 12	PR 9-25. An Initial Investigation of Liquid Fluorine as a Rocket Propellant Oxidizer (Zima and Doescher), 25 January 1949
Box 4, Folder 13	PR 9-27. Some Performance Characteristics of the Liquid Fluorine-Hydrazine Propellant System (Doescher and Zima), 1 March 1950
Box 4, Folder 14	PR 9-50. The Reduction of Heat Transfer to Rocket Motors by Motor-Wall-Coating Techniques (Thomas and Cole), 15 December 1950
Box 4, Folder 15	PR 9-52. Apparatus for Laboratory-Scale Determination of Ignition Lag of Spontaneous Liquid Rocket Propellants (Adelman), 23 February 1951

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Series 5: 20- Prefix Publications, 1951-1954

4 items

Scope and Contents: 20- prefix publications resulted from work primarily performed for the Ordnance Department, United States Army under contract DA-04-495-Ord-18.

Box 4, Folder 16 PR 20-130. A Preliminary Experimental Evaluation of the Liquid Fluorine-Gaseous Hydrogen Propellant System (Zima and Doescher), 21 March 1951

Box 4, Folder 17 PR 20-167. The Logistic Comparison of Some Wide-Temperature-Range Rocket Fuels and the Performance Characteristics with Oxides of Nitrogen (Cole and Elverum), 19 March 1952

Box 4, Folder 18 PR 20-240. Dual Generated-Gas System for Pumping Propellants (Densmore), 30 September 1954

Box 4, Folder 19 Rpt 20-77. Basic Factors Involved in the Design and Operation of Catalytic Monopropellant-Hydrazine Reaction Chambers (Grant), 31 December 1954

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Series 6: 32- Prefix Publications: Technical Reports (TR), 1960-1976

24.75 cubic feet

Box 5, Folder 1	TR 32-30 (Rev.1). Design of Lunar and Interplanetary Ascent Trajectories (Clarke), 15 March 1962
Box 5, Folder 2	TR 32-39 (Rev.1). Properties of Welded High-Strength Titanium Alloy Sheet (Brothers, Martens, and Wood), 1963
Box 5, Folder 3	TR 32-59. The Goldstone Station Communications and Tracking System for Project Echo (Stevens and Victor, ed.), 1 December 1960 [2 copies]
Box 5, Folder 4	TR 32-68. Interplanetary Trajectories and Payload Capabilities of Advanced Propulsion Vehicles (Melbourne), 31 March 1961
Box 5, Folder 5	TR 32-77. Design Parameters for Ballistic Interplanetary Trajectories — Part I. One-way Transfers to Mars and Venus (Clarke, Bollman, Roth, and Scholey), 16 January 1963
Box 5, Folder 6	TR 32-77. Design Parameters for Ballistic Interplanetary Trajectories — Part II. One-way Transfers to Mercury and Jupiter (Clarke, Bollman, Feitis, and Roth), 15 January 1966
Box 5, Folder 7	TR 32-84. The U.S. Planetary Exploration Program (Parks; Astronautics), May 1961
Box 5, Folder 8	TR 32-94. Gaseous Fission Reactors for Booster Propulsion (Meghreblian), 31 March 1961
Box 5, Folder 9	TR 32-103. A Maser System for Radar Astronomy (Higa), 15 June 1961
Box 5, Folder 10	TR 32-108. Thermal History of the Moon and of the Terrestrial Planets (Kopal), 1 May 1961
Box 5, Folder 11	TR 32-112. Theoretical and Practical Aspects of Correlating Percent Shear-Lip to Relative Plastic Zone Size in Brittle Fracture (Gerberich), 20 September 1962
Box 5, Folder 12	TR 32-116. A Two-Fluid Magnetohydrodynamic Cycle for Nuclear-Electric Power Conversion (Elliott), 30 June 1961
Box 5, Folder 13	TR 32-117. Thrust-Unit Requirements for Electrically Propelled Spacecraft (Elliott and Molitor), 10 June 1961
Box 5, Folder 14	TR 32-118. Optimum Thrust Program for Power-Limited Propulsion Systems (Melbourne and Sauer), 15 June 1961

Box 5, Folder 15	TR 32-119. Sound Radiation from a Turbulent Boundary Layer (Laufer), 1 November 1961
Box 5, Folder 16	TR 32-124. A Statistical Problem Related to the Launching of a Missile (Lass and Solloway), 20 July 1961
Box 6, Folder 1	TR 32-125. Experimental Investigation of the Forced-Convection and Nucleate-Boiling Heat-Transfer Characteristics of Liquid Ammonia (Noel), 19 July 1961
Box 6, Folder 2	TR 32-126. The Expansion of a Plasma Column in a Longitudinal Magnetic Field (Wu), 30 June 1961
Box 6, Folder 3	TR 32-127. Numerical Determination of Radiation Configuration Factors for Some Common Geometrical Situations (Plamondon), 7 July 1961
Box 6, Folder 4	TR 32-131. The Perturbations of a Hyperbolic Orbit by an Oblate Planet (Sauer), 15 January 1963
Box 6, Folder 5	TR 32-132. Radar Exploration of Venus: Goldstone Observatory Report for March-May 1961 (Victor, Stevens, and Golomb, ed), 1 August 1961
Box 6, Folder 6	TR 32-133. Optimization of Condensing Temperature for Nuclear Turboelectric Space Power Plant (Davis), 1 August 1961
Box 6, Folder 7	TR 32-134. Regularity and Positional Games (Hales and Jewett), 31 January 1962
Box 6, Folder 8	TR 32-136. Investigation of a Pulse-Torqued System (Johnston and Szirmay), 19 April 1961
Box 6, Folder 9	TR 32-141. The Ranger Program (Astronautics), September 1961 [2 copies]
Box 6, Folder 10	TR 32-147. Cosmic Radiation and the K40—A40 "Ages" of Iron Meteorites (Marshall), 10 August 1961
Box 6, Folder 11	TR 32-150. Behavior of Materials in Space Environments (Jaffe and Rittenhouse), 1 November 1961
Box 6, Folder 12	TR 32-151. Observations of Mars Made in 1961 at the Pic du Midi Observatory (Focas), 30 January 1962
Box 6, Folder 13	TR 32-152. Application of Static-Test Vibration Data (Trummel), 20 August 1961
Box 6, Folder 14	TR 32-154. Determination of Radiation Configuration Factors (Hickman), 21 December 1961
Box 6, Folder 15	TR 32-156. Objectives of the Mariner Venus Microwave Radiometer Experiment (Barrett, Copeland, Jones, and Lilley), 22 August 1961

Box 6, Folder 16	TR 32-158. Systems Engineering of a Nuclear-Electric Spacecraft (Beale), 31 October 1961
Box 6, Folder 17	TR 32-160. Instrumentation Requirements for the Engineering Evaluation of Nuclear-Electric Spacecraft (Apel), 25 October 1961
Box 6, Folder 18	TR 32-163. The Use of a Proton-Proton Spin Decoupling Method for the Determination of Nuclear Magnetic Resonance Chemical Shifts (Manatt and Elleman; Journal of the American Chemical Society), 5 October 1961
Box 6, Folder 19	TR 32-166. Control and Guidance of Electrically Propelled Spacecraft (Hirrel), 15 September 1960
Box 6, Folder 20	TR 32-171. A 500-Electrical-Watt Solar Energy Thermionic Conversion System for a Mars Spacecraft (A. Smith), 15 April 1962
Box 6, Folder 21	TR 32-173. Interplanetary Trajectory Optimization with Power-Limited Propulsion Systems (Melbourne, Richardson, and Sauer), 26 February 1962
Box 6, Folder 22	TR 32-178. Solution of a Circular Ring Structural Problem (McGinness), 1 November 1961
Box 6, Folder 23	TR 32-179. An Experimental 960-mc Maser Amplifier System Applicable to Space Communications (Stelzried, Schuster, and Sato), 15 November 1961
Box 6, Folder 24	TR 32-182. Strain Measurement on a Pressurized Solid Propellant Grain (Miguel), 15 March 1962
Box 6, Folder 25	TR 32-188. Fission-Fragment Energy Loss From Vortex Tubes (Stumpf), 12 March 1962
Box 7, Folder 1	TR 32-189. Thermal and Criticality Analysis of the Plasma Core Reactor (Spencer), 1 January 1962
Box 7, Folder 2	TR 32-190. Test-Bed Configurations for the Flight Testing of SNAP-8 Powered Electric- Propulsion Systems (Beale, Womack, Hirrel, and Apel), 24 November 1961
Box 7, Folder 3	TR 32-198. A Parametric Survey of Criticality-Limited Fast Reactors Employing Uranium Fluorine Fuels (Allen), 15 March 1962
Box 7, Folder 4	TR 32-199. Scientific Experiments for Ranger 3, 4, and 5, 5 December 1961 [2 copies]
Box 7, Folder 5	TR 32-205. Development of a Trajectory-Correction Propulsion System for Spacecraft (W. Smith), 8 December 1961
Box 7, Folder 6	TR 32-220. Alkoxychlorosilanes and Alkoxysilanes Containing Silane Hydrogen (Klejnot; Inorganic Chemistry), August 1963

Box 7, Folder 7	TR 32-222. Tensile Properties of Five Low-Alloy and Stainless Steels Under High-Heating-Rate and Constant-Temperature Conditions (Gerberich, Martens, and Boundy), 1 June 1962
Box 6, Folder 8	TR 32-230. Diffraction Telescope for Astronomy in Space (Wells), 15 April 1962
Box 7, Folder 9	TR 32-231. A Nuclear-Electric Spacebus for Planetary Landing Missions (Beale and Speiser), 1 May 1962
Box 7, Folder 10	TR 32-233. Feasibility of Interstellar Travel (Spencer and Jaffe), 15 March 1962
Box 7, Folder 11	TR 32-251. Spectroscopic Temperature and Pressure Measurements in the Venus Atmosphere (Spinrad; Publications of the Astronomical Society of the Pacific), June 1962
Box 7, Folder 12-15	TR 32-255. An Experimental Correlation of the Nonreactive Properties of Injection Schemes and Combustion Effects in a Liquid-Propellant Rocket Engine. Notes: Part I. The Application of Nonreactive-Spray Properties to Rocket-Motor Design (Rupe); Part II. Instrumentation, Experimental Apparatus, and Experimental Techniques (Clayton, Rupe, and Gerbracht); Part V. On the Influence of Vanes on Combustion and Combustion Stability (Rupe); Part VI. The Relation Between the Starting Transient and Injection Hydraulics (Clayton and Rupe)
Box 7, Folder 16	TR 32-256. A Search for Water Vapor and Trace Constituents in the Venus Atmosphere (Spinrad), 1 October 1962
Box 7, Folder 17	TR 32-266. NMR Double Resonance Techniques for the Determination of Spin Spin Coupling Constants (Elleman and Manatt; Magnetic and Electric Resonance and Relaxation), October 1963
Box 7, Folder 18	TR 32-269. Heat and Momentum Transfer in Smooth and Rough Tubes at Various Prandtl Numbers (Dipprey and Sabersky), 6 June 1962
Box 7, Folder 19	TR 32-270. Landau Damping and Resonant Energy Absorption (Wu; The Physical Review), September 1962
Box 7, Folder 20	TR 32-272. The Lunar Seismograph Experiment: Ranger 3, 4, 5 (Adamski), 1 June 1962
Box 7, Folder 21	TR 32-274. The Application of Optical Sensors for Lunar and Planetary Space Vehicles (Scull), 31 May 1962
Box 7, Folder 22	TR 32-289. Effect of Ultra-High Vacuum on Bacillus Subtilis Var. Niger (Morelli, Fehlner, and Stembridge; Nature), October 1962
Box 7, Folder 23	TR 32-293. Part II. The Effect on the Lunar Orbit of Meteoric Accretion (Lyttleton; ICARUS: International Journal of the Solar System), March 1966

Box 7, Folder 24	TR 32-296. The Effect of a Strong Magnetic Field on Two-dimensional Flows of a Conducting Fluid (Childress; Journal of Fluid Mechanics), March 1963
Box 7, Folder 25	TR 32-299. Structural and High-Tensile Properties of Boron Pyrolytic Graphite (Kotlensky and Martens), 16 December 1963
Box 7, Folder 26	TR 32-301. Potentialities of Electron Bombardment Ion Engines for Electric Propulsion (Kerrisk; IRE Transactions on Space Electronics and Telemetry), 15 May 1963
Box 7, Folder 27	TR 32-305. Chlorine Trifluorine-Hydrazine Liquid Propellant Evaluation and Rocket Motor Development (Powell, Irving, and Guenther), 15 May 1963
Box 7, Folder 28	TR 32-311. A Design Solution to the Spacecraft Look-Angle Problem (Wilson and Coyle), 6 August 1962
Box 8, Folder 1	TR 32-315. Scientific Experiments for Mariner R-1 and R-2 (Wyckoff, ed.), 15 July 1962
Box 8, Folder 2	TR 32-317. Flow Separation in a Contour Nozzle (Roschke and Massier; ARS Journal), October 1962
Box 8, Folder 3	TR 32-325 (Rev.). Sterilization of Unmanned Planetary and Lunar Space Vehicles — An Engineering Examination (Jaffe; rev.), 25 March 1963
Box 8, Folder 4	TR 32-326. The Bearing Capacity of Simulated Lunar Surfaces in Vacuum (Bernett, Scott, Jaffe, Frink, and Martens), 15 August 1963
Box 8, Folder 5	TR 32-327. The Structure of Strong Shock Waves in the Krook Collision Model (Chahine; 3rd International Rarefied Gas Dynamics Symposium), August 1963
Box 8, Folder 6	TR 32-328. Lunar Seismology (Kovach and Press), 10 August 1962
Box 8, Folder 7	TR 32-329. An Electromagnetic Flowmeter for Low Conductivity Fluids (Balling and Connor), 30 August 1962
Box 8, Folder 8	TR 32-332. Theoretical and Experimental Aspects of Ring Currents (E. Smith), 1 November 1962
Box 8, Folder 9	TR 32-333. Analysis of Heterogeneous Reactors Containing Moderating Fuel Elements (Tesnière), 28 February 1963
Box 8, Folder 10	TR 32-334. Homogeneity of Diisocyanate-Linked Elastomers (Havlik), 15 September 1962
Box 8, Folder 10	TR 32-335. Development of the Midcourse Trajectory-Correction Propulsion System for the Ranger Spacecraft (Lee), 15 March 1963

Box 8, Folder 12	TR 32-343. Lunar Surface and Subsurface Magnetic Susceptibility Instrumentation (Bollin; IRE Transactions on Instrumentation), December 1962
Box 8, Folder 13	TR 32-345. The Ranger 4 Flight Path and Its Determination from Tracking Data (Hamilton, Sjogren, Kirhofer, Fearey, and Cain), September 1962
Box 8, Folder 14	TR 32-347. Photography of the Moon from Space Probes (Eimer), 15 January 1963
Box 8, Folder 15	TR 32-348. Performance Calculations for Monopropellant Hydrazine and Monopropellant Hydrazine—Hydrazine Nitrate Mixtures (Lee), December 1962
Box 8, Folder 16	TR 32-349. Comparison of Calculated with Measured Boundary-Layer Thicknesses on the Curved Walls of the JPL 20-in. Supersonic Wind Tunnel Two-Dimensional Nozzle (Dayman), 18 March 1963
Box 8, Folder 17	TR 32-350. Solar-Cell Power Systems Testing (Zoutendyk), 17 December 1962
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Box 47, Folder 15	TR 32-1439. On the Internal Structures of Mercury and Venus (Lyttleton; Astrophysics and Space Science), September 1969

Box 47, Folder 16	TR 32-1440. Radiation from a Circularly Polarized Antenna Through the Ionized Wake of a Mars-Entry Capsule (Woo and Ishimaru; IEEE Transactions on Antennas and Propagation), July 1969
Box 47, Folder 17	TR 32-1441. Flow and Heat Transfer in Laminar Boundary Layers with Swirl (Back; AIAA Journal), September 1969
Box 47, Folder 18	TR 32-1442. Six-Channel Spectrum Averager for Environmental Acoustic Testing (Chapman; Journal of Environmental Sciences), June 1969
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Box 47, Folder 20	TR 32-1445. Correlation of Fixed-Spacing Thermionic Converter Performance with Variable-Spacing Test Vehicle Data (Merrill; IEEE Transactions on Electron Devices), August 1969
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Box 47, Folder 22	TR 32-1447. Laminar Flow Heat Transfer From a Gaseous Plasma at Elevated Electron Temperature in the Presence of Electromagnetic Fields (Bose), 1 March 1970
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Box 47, Folder 25	TR 32-1450. Application of Variable Optics to Solar Simulation Systems for Generation of High Intensity Light Beams (Harris and Wilson; presented at the AIAA/ASTM/IES 4th Space Simulation Conference, Los Angeles, CA), 8-10 September 1969
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Box 47, Folder 28	TR 32-1453. Nonlinear Analysis of Generalized Tracking Systems (Lindsey; Proceedings of the IEEE), October 1969

Box 47, Folder 29	TR 32-1454. Survival of Microorganisms in Desert Soil Exposed to Five Years of Continuous Very High Vacuum (Cameron, Morelli, and Conrow), 15 March 1970
Box 47, Folder 30	TR 32-1456. Earth-Based Research on the Outer Planets During the Period 1970-1985 (Newburn, Farmer, Gulkis, Mackin, and Whitehead), 15 March 1970
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Box 47, Folder 32	TR 32-1458. Carbon Monoxide in the Martian Atmosphere (Kaplan, Connes and Connes; Astrophysics Journal), September 1969
Box 47, Folder 33	TR 32-1459. Reduction of the Viscous Shock-Layer Equations to Boundary-Layer Equations (Schneider), 1 May 1970
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Box 48, Folder 4	TR 32-1462. A Review of Aerodynamic Noise from Propellers, Rotors, and Lift Fans (Marte and Kurtz), 1 January 1970
Box 48, Folder 5	TR 32-1463. A Numerical Study of Cavity Radiometer Emissivities (Sydnor), 15 February 1970
Box 48, Folder 6	TR 32-1464. A Digitally Controlled Vibration or Acoustics Testing Station (Proceedings of the Institute of Environmental Sciences Meeting on Environmental Testing, Anaheim, CA). (1) Advantages and Basic Concepts (Chapman); (2) Statistical Requirements and Spectrum Shaping Techniques (Shipley); (3) Hardware Requirements and Implementation (Heizman), 20-23 April 1969
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Box 49, Folder 5	TR 32-1475. Proceedings of the Conference on Scientific Applications of Radio and Radar Tracking in the Space Program. Held at the Jet Propulsion Laboratory, Pasadena, California, April 9-10, 1969 (Efron and Solloway, ed.), 1 July 1970
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Box 49, Folder 18	TR 32-1495. Thermoelectric Generators for Deep Space Application (Rouklove and Truscello), 15 January 1971
Box 49, Folder 19	TR 32-1496. Optimum Structural Design Based on Reliability Analysis (Shinozuka, Yang, and Heer; Proceedings of the Eighth International Symposium on Space Technology and Science, Tokyo, Japan), 25-30 August 1949
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Box 54, Folder 8	TR 32-1605. Conical-Scan Tracking with the 64-m-Diameter Antenna at Goldstone (Ohlson and Reid), 1 October 1976
Box 54, Folder 9	TR 32-1606. Sustained Load Crack Growth Design Data for Ti-6Al-4V Titanium Alloy Tanks Containing Hydrazine (Lewis and Kenny), 15 September 1976

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Series 7: 33- Series Publications: Technical Memoranda (TM), 1961-1976

1.5 cubic feet

Box 54, Folder 10	TM 33-56. Surveyor Elevated Television Experiment (Rennilson), 11 September 1961
Box 54, Folder 11	TM 33-332. Venus/Mercury Swingby with Venus Capsule: Preliminary Science Objectives and Experiments for Use in Advanced Mission Studies (Brereton, Newburn, McDonald, Barath, Herriman, Goforth), 1 May 1967
Box 54, Folder 12-14; Box 56, Folder 1; Box 55, Folder 1-8	TM 33-426. Tracking and Data System Support for the Pioneer Project. Vol. 1-12, 1970-1973
Box 56, Folder 2-4	TM 33-452. Deep Space Network Support of the Manned Space Flight Network for Apollo. Vol 1-3, 1970-1974
Box 56, Folder 5-8	TM 33-584. Tracking and Data System Support for the Pioneer Project. Vol 1-4, 1973, 1975
Box 57, Folder 1	TM 33-589. Thermoelectric Outer Planets Spacecraft (TOPS) Advanced Systems Technology Project Final Report, 1 April 1973
Box 57, Folder 2	TM 33-692. Implementation of the 64-Meter-Diameter Antennas at the Deep Space Stations in Australia and Spain (Bartos, Bell, Phillips, Sweetser, and Rotach), 15 January 1975
Box 57, Folder 3	TM 33-698. Mariner Venus/Mercury 1973 Solar Radiation Force and Torques (Georgevic), 1 December 1974
Box 57, Folder 4	TM 33-704. A Free-Flight Investigation of Transonic Sting Interference (Jaffe), 1 January 1975
Box 57, Folder 5	TM 33-722. Frontiers in Propulsion Research: Laser, Matter-Antimatter, Excited Helium, Energy Exchange, Thermonuclear Fusion (Papailiou, ed.), 15 March 1975
Box 57, Folder 6	TM 33-723. Guide to the Use of Mariner Images (Saunders, Mutch, and Jones), 15 October 1975
Box 57, Folder 7-8	TM 33-734. Mariner Venus-Mercury 1973 Project Final Report. Vol 1-2, 1975-1976

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Series 8: 34- Prefix Publications: Technical Releases (TRel), 1960

3 items

Box 57, Folder 9	TRel 34-12. Explorer Satellite Electronics (Victor, Richter, and Eyraud), 29 January 1960
Box 57, Folder 10	TRel 34-26. Evaluation of the Pioneer IV Orbit-Determination Program (Eimer and Hiroshige), 22 February 1960
Box 57, Folder 11	TRel 34-57. A Possible Method of Dating the Lunar Surface Features (Kreiter), 11 April 1960

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Series 9: 36- Prefix Publications: Research Summaries (RS), 1961-1962

5 items

Scope and Contents: These bimonthly reports detail supporting research and development activities at JPL. Research Summaries were planned to be issued in two volumes depending on the security classification of the material included: Volume I unclassified programs and Volume II programs classified "Confidential." The series was discontinued after RS 36-14, with material that would have been included in a 36-prefix Research Summary included instead as Volumes IV and V of the 37- prefix Space Program Summaries.

Box 58, Folder 1	RS 36-8. For the Period February 1, 1961 to April 1, 1961, 1 May 1961
Box 58, Folder 2	RS 36-11. For the Period August 1, 1961 to October 1, 1961, 1 November 1961
Box 58, Folder 3	RS 36-12. For the Period October 1, 1961 to December 1, 1961. Vol.1. (Unclassified), 2 January 1962
Box 58, Folder 4	RS 36-13. For the Period December 1, 1961 to February 1, 1962, 1 March 1962
Box 58, Folder 5	RS 36-14. For the Period February 1, 1962 to April 1, 1962, 1 May 1962

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Series 10: 37- Prefix Publications: Space Program Summaries (SPS), 1961-1970

5.75 cubic feet

Scope and Contents: These bimonthly reports detail research and development activities at JPL having specific application to NASA's space program. Space Program Summaries were issued in two volumes depending on the security classification of the programs: Volume I contained unclassified programs and Volume II programs classified "Confidential."

Arrangement: In April 1962 (beginning with SPS 37-15) material that would have been included in a 36- prefix Research Summary was instead published as Volumes IV and V of the reorganized six-volume 37-prefix Space Program Summary. In the new scheme summaries were organized by subject:

Volume I: The Lunar Program (Confidential)

Volume II: The Planetary-Interplanetary Program (Confidential)

Volume III: The Deep Space Instrumentation Facility/The Deep Space Network (unclassified)

Volume IV: Supporting Research and Advanced Development (unclassified)

Volume V: Supporting Research and Advanced Development (Confidential)

Volume VI: Space Exploration and Space Sciences (unclassified)

Beginning with SPS 37-47 (covering mid-1967) the report format was revised. Specifically unclassified programs previously reported in Volumes I and II were combined into one volume while Confidential material from Volumes I, II, and V were also combined, leaving a total of four volumes:

Volume I: Flight Projects (unclassified)

Volume II: The Deep Space Network (unclassified)

Volume III: Supporting Research and Advanced Development (unclassified)

Volume IV: Flight Programs and Supporting Research and Advanced Development (Confidential)

Box 58, Folder 6	SPS 37-8. Vol.I. (Unclassified) For the Period January 15, 1961 to March 1, 1961, 1 April 1961 [2 copies]
Box 58, Folder 7	SPS 37-9. Vol.I. (Unclassified) For the Period March 1, 1961 to May 1, 1961, 1 June 1961
Box 58, Folder 8	SPS 37-10. Vol.I. (Unclassified) For the Period May 1, 1961 to July 1, 1961, 1 August 1961
Box 58, Folder 9	SPS 37-13. Vol.I. (Unclassified) For the Period November 1, 1961 to January 1, 1962, 1 February 1962
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Box 59, Folder 1-2	SPS 37-15. Vol.IV. Supporting Research and Advanced Development For the Period April 1, 1962 to June 1, 1962; Vol.VI. Space Exploration Programs and Space Sciences For the Period March 1, 1962 to June 1, 1962, 30 June 1962

Box 59, Folder 3	SPS 37-16. Vol.IV. Supporting Research and Advanced Development For the Period June 1, 1962 to August 1, 1962, 31 August 1962
Box 59, Folder 4	SPS 37-17. Vol.IV. Supporting Research and Advanced Development For the Period August 1, 1962 to October 1, 1962, 30 October 1962
Box 59, Folder 5	SPS 37-18. Vol.IV. Supporting Research and Advanced Development For the Period October 1, 1962 to December 1, 1962, 31 December 1962
Box 59, Folder 6	SPS 37-19. Vol.IV. Supporting Research and Advanced Development For the Period December 1, 1962 to January 31, 1963, 28 February 1963
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Scope and Contents: The 39- prefix publications are Bibliographies of Jet Propulsion Laboratory publications completed under NASA contracts NASw-6 and NAS7-100.

Box 70, Folder 1 Bibl 39-5. Publications of the Jet Propulsion Laboratory July 1963 through June 1964, 31 August 1964

Box 70, Folder 2 Bibl 39-15. Publications of the Jet Propulsion Laboratory: January through December 1973, 1 April 1974

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Box 70, Folder 5 Bibl 39-18. Publications of the Jet Propulsion Laboratory: 1976, 15 July 1977

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Series 12: 42- Prefix Publications: Deep Space Network Progress Reports (PR), 1977

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Scope and Contents: This series continues from the DSN Progress Reports published as Technical Report 32-1526 (Volumes I-XIX), beginning with Progress Report 42-20.

Box 70, Folder 8 PR 42-37. The Deep Space Network, November and December 1976, 15 February 1977

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Series 13: 43- Prefix Publications: Special Publications (SP), 1974-1976

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Box 71, Folder 2	SP 43-11. Assessment of the Technology Required to Develop Photovoltaic Power Systems for Large-Scale National Energy Applications (also released as National Science Foundation Report NSF-RA-N-74-072), 15 October 1974
Box 71, Folder 3	SP 43-14. The Availability of Aerial Photography in Southern California (Allen, Sledge, Paul, and Landini), 1 December 1974
Box 71, Folder 4	SP 43-22. Results of Phase One of Land Use Information Delphi Study (Paul and Landini), 1 May 1975
Box 71, Folder 5	SP 43-27 Vol.1. Requirements and Capabilities for Planetary Missions: Mariner Encke Ballistic Flyby 1980 (Ball and Bird), November 1975
Box 71, Folder 6	SP 43-32. Proceedings of the Lectures by the Seismological Delegation of the People's Republic of China (Muller, ed., translated by Ohnuki, Ong, and Chao), 1 August 1976

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Box 71, Folder 10	EP 685. The Elements of a Deep-Space Tracking System; The Tracking of Pioneer IV (Richter and Stevens), 13 August 1959
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Series 16: Miscellaneous Publications, 1973

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Box 71, Folder 12-13	Photovoltaic Conversion of Solar Energy for Terrestrial Applications; Workshop Proceedings (released as National Science Foundation report NSF-RA-N-74-013; 23-25), October 1973 Notes: Vol.I. Working Group and Panel Report; Vol.II. Invited Papers
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