Department of Mechanical and Aerospace Engineering Technical Reports 1947-1998: Finding Aid

Summary Information

Call number: (ST) TJ1.R462
Repository: Princeton University. Library. Department of Rare Books and Special Collections
Friend Center for Engineering Education
Princeton, New Jersey 08540
Size: 1.0 linear feet
763 volumes
Language(s) of Material: English
Abstract: Consists of technical reports created by the Mechanical and Aerospace Engineering Department at Princeton University from 1947 to 1998.
Location: This collection is stored onsite at the Engineering Library.
# Department of Mechanical and Aerospace Engineering Technical Reports 1947-1998: Finding Aid

## Table of Contents

- **Summary Information**  .................................................................................................................. 1
- **Description** ................................................................................................................................. 3
- **Access and Use** ............................................................................................................................ 3
- **Processing and Other Information** ............................................................................................. 3
- **Subject Headings** ......................................................................................................................... 3
- **Contents List** ..................................................................................................................................
Description

Consists of technical reports from the Department of Mechanical and Aerospace Engineering.

Access and Use

Access

Collection is open for research use.

Restrictions on Use and Copyright Information

Single photocopies may be made for research purposes. For quotations that are fair use as defined under U. S. Copyright Law, no permission to cite or publish is required.

Processing and Other Information

Preferred Citation

Identification of specific item; Date (if known); Department of Mechanical and Aerospace Engineering Technical Reports, Engineering Library, Princeton University Library.

Encoding

This finding aid was produced using the Archivists' Toolkit 2011-07-02T11:20-0400

Descriptive Rules Used

Finding aid content adheres to that prescribed by Describing Archives: A Content Standard.

Subject Headings

- Aerospace engineering
- Combustion
- Fluid mechanics
- Mechanical engineering
- Propulsion systems
- Princeton University
The analysis of helicopter blades, 1947 January 31
  itemnumber: Report No. 100
  Creator: Nikolsky, A. A.; Seckel, E.
Measurements of total energy radiated from an Argon arcjet, 1962 August
  itemnumber: Report no. 621
  Creator: Grey, J.; Jacobs, Paul, 1918- -- Correspondence.
Effect of static margin and airplane density on the control-free dynamic longitudinal stability of the airplane, 1947 April 3
  itemnumber: Report No. 104
  Creator: Greenberg, Henry
Control force instrumentation for flight test, 1947 March 30
  itemnumber: Report No. 107
  Creator: Graham, Dunstan; Perkins, Courtland D.
Project SQUID: the flow at the rear of a two-dimensional supersonic airfoil, 1947 June 1
  itemnumber: Report no. 110
  Creator: Kahane, A.; Lees, Lester
Stability derivatives for delta wings and slender bodies by the linearized theory, 1947 July 1
  itemnumber: Report no. 117
  Creator: Wald, Quentin
Application of frequency response method to the calculation of dynamic stability limits of airplanes with two independent autopilots, 1947 October 5
  itemnumber: Report no. 119
  Creator: Greenberg, Harry
Remarks on the interaction between shock waves and boundary layer in transonic and supersonic flow, 1947 November 1
  itemnumber: Report no. 120
  Creator: Lees, Lester
An analytical investigation of vertical forced landings of single rotor helicopters (Part I), 1947 November 10
itemnumber: Report no. 122
Creator: Nikolsky, A. A.; Seckel, E.
An analytical investigation of vertical forced landings of single rotor helicopters (Part II), 1947 November 10

itemnumber: Report no. 123
Creator: Nikolsky, A. A.; Seckel, E.
Unsteady one-dimensional flows with heat addition or entropy gradients, 1947 November 25

itemnumber: Report no. 124
Creator: Kahane, A.; Lees, Lester
Estimation of damping in roll of wings at high supersonic speeds, 1948 March 1

itemnumber: Report no. 125
Creator: Seckel, E.
A study of rate gyro with variable reluctance pick-off unit, 1948 April 1

itemnumber: Report no. 126
Creator: Ashworth Sr., Harry
Condensation of components of air in supersonic wind tunnels, 1948 March 1

itemnumber: Report no. 127
Creator: Charyk, J. V.; Lees, Lester
Estimation of dihedral effect of wings at high supersonic speeds, 1968 July 2

itemnumber: Report no. 128
Creator: Seckel, E.
An analytical study of the steady vertical descent in autorotation of single rotor helicopters, 1948 May 4

itemnumber: Report no. 129
Creator: Nikolsky, A. A.; Seckel, E.
A method for the determination of initial stresses, 1948 August 9

itemnumber: Report no. 131
Creator: Riparbelli, Carlo
An analysis of the transition of a helicopter from hovering to steady autorotative vertical descent, 1948 May 12
Stability of the laminar boundary layer with injection of cool gas at the wall, 1948 May 20
  itemnumber: Report no. 139
  Creator: Lees, Lester
The Princeton pilot variable density supersonic wind tunnel, 1948 May 29
  itemnumber: Report No. 140
  Creator: Bogonoff, Seymour
Damping in pitching of sweptback wings with supersonic leading and trailing edges, 1948 July 26
  itemnumber: Report no. 141
  Creator: Greenberg, Harry
Static longitudinal stability and control characteristics of a typical high speed aircraft design at supersonic speeds, 1948 September 21
  itemnumber: Report no. 142
  Creator: Seckel, E.
Interaction between the laminar boundary layer over a plane surface and an incident oblique shock wave, 1949 January 24
  itemnumber: Report no. 143
  Creator: Lees, Lester
Wind tunnel tests for Hughes Aircraft Co. in the 5x4 wind tunnel, undated
  itemnumber: Report no. 144
  Creator: Perkins, Courtland D.
Study of the condensation of the components of air in supersonic wind tunnels, 1949 May 25
  itemnumber: Report no. 146
  Creator: Bogonoff, Seymour; Lees, Lester
Wind tunnel tests for Hughes Aircraft Co. in the 5x4 wind tunnel (second series), 1949
  itemnumber: Report no. 152
  Creator: Perkins, Courtland D.
Construction and operation of a variable contour laval nozzle in a water-air flow analogy tank, 1949
  itemnumber: Report no. 154
  Creator: Gebhard, David F.
The performance of axial-flow compressors as affected by single stage characteristics, 1949 October 1
  itemnumber: Report no. 155
  Creator: Bogonoff, Seymour

An experimental investigation of the transition of a helicopter from hovering to vertical autorotation, 1949 December 1
  itemnumber: Report no. 156
  Creator: Lynn, Robert; Slaymaker, S.E

Methods for obtaining aerodynamic data through steady state flight testing, 1950 April 3
  itemnumber: Report no. 159
  Creator: Perkins, Courtland D.

Theoretical analysis of the downwash distribution over helicopter rotors in forward flight, 1950 September 30
  itemnumber: Report no. 164
  Creator: Hazen, D.C.; Nikolsky, A. A.; Seckel, E.

Power requirements for helicopter cyclic de-icing, 1950 October 10
  itemnumber: Report no. 165
  Creator: Miller Jr., Kenneth Dexter

Flight test laboratory aeronautical engineering class of 1951: tests on Cessna 140, 1951
  itemnumber: Report no. 166
  Creator: Dike, D.J.; Irvin, E.M.; Kepler, C.E.; Knowlton, M.P.; Lightcap, E.T.; Snedeker, R.S.

Stability of the supersonic laminar boundary layer with a pressure gradient, 1950 November 20
  itemnumber: Report no. 167
  Creator: Lees, Lester

Time lag in the self-nucleation of a supersaturated vapor, 1950 November 27
  itemnumber: Report no. 168
  Creator: Probstein, Ronald F.

Wind tunnel tests for Chase Aircraft Co. XC-123 vertical tail studies, undated
  itemnumber: Report no. 169
  Creator: Perkins, Courtland D.
Methods for obtaining aerodynamic data through steady state flight testing, 1950 December 3
  itemnumber: Report no. 170
  Creator: Perkins, Courtland D.

Power-off flare-up tests of a model helicopter in vertical autorotation, 1951 May 15
  itemnumber: Report no. 174
  Creator: Gray, Robin B.; Slaymaker, S.E

The theory and application of obtaining lift and drag by pressure integration, 1951
  itemnumber: Report no. 180
  Creator: Knowlton, M.P.

A preliminary study of Reynolds number effects on base pressure at M=2.95, 1951 June 12
  itemnumber: Report no. 182
  Creator: Bogonoff, Seymour

The design, construction, and operation of the Princeton 4 by 8 inch variable-density supersonic tunnel, 1951 October 22
  itemnumber: Report no. 183
  Creator: Bogonoff, Seymour

A preliminary investigation of a shock-wave turbulent boundary layer interaction, 1951 November 30
  itemnumber: Report no. 184
  Creator: Bogonoff, Seymour; Solarski, A.H.

A theoretical and experimental investigation of the feasibility of the intermittent ram-jet engine, 1951 August 1
  itemnumber: Report no. 185
  Creator: Kahane, A.; Marino, Alfred A.; Messinger Jr., C.W.; Shafer, H. Jerome

A mixing theory for the interaction between dissipative flows and nearly-isentropic streams, 1952 January 15
  itemnumber: Report no. 187
  Creator: Crocco, Luigi; Lees, Lester

Flight test laboratory tests on Stinson I-5, 1952
  itemnumber: Report no. 188

Flight test Lanier paraplane, 1952 January
   itemnumber: Report no. 189
   Creator: Perkins, Courtland D.

Model study of dynamic stability of helicopters, 1952 February 1
   itemnumber: Report no. 190
   Creator: Gray, Robin B.; McCaskill, Allan M.; Poole, Allan K.; Slaymaker, S.E

Experimental studies of energy release rates in rocket motor consumption chambers, 1952 March 24
   itemnumber: Report no. 191
   Creator: Charyk, J. V.; Matthews, G.B.

Theory and application of the flow over a cusp, 1952 March
   itemnumber: Report no. 192
   Creator: Ringleb, F.O.

The mixing and burning of two concentric fluid streams, 1952 March 31
   itemnumber: Report no. 194
   Creator: Charyk, J. V.; Glassman, Irvin; John, Richard R.

Hypersonic viscous flow over a flat plate, 1952 April 20
   itemnumber: Report no. 195
   Creator: Lees, Lester; Probstein, Ronald F.

The design and performance of a ramjet airliner with turbojet boost, 1952
   itemnumber: Report no. 202
   Creator: Saunders, David M.

Preliminary investigation of the ram rocket as a power plant for a long-range guided missile, 1952 July 1
   itemnumber: Report no. 210
   Creator: Sutherland, George S.

On the stability of laminar boundary layer flow, 1952
   itemnumber: Report no. 211
   Creator: Cheng, Sin-i

On the boundary layer equations in hypersonic flow and their approximate solutions, 1952 September 20
itemnumber: Report no. 212
Creator: Lees, Lester
On a solution of the energy equation for a rotating plate started impulsively from rest, 1952 September 20

itemnumber: Report no. 213
Creator: Probstein, Ronald F.
Two dimensional wind tunnel tests for Piasecki helicopter corporation, 1952 December 12

itemnumber: Report no. 214
Creator: Hazen, D.C.; Sweeney, Thomas E.
The longitudinal stability and control of single rotor helicopters in autorotative forward flight, 1952 October

itemnumber: Report no. 215
Creator: Nikolsky, A. A.
Combustion instability in liquid propellant rocket motors (Part I), 1952 July 31

itemnumber: Report no. 216A
Combustion instability in liquid propellant rocket motors (Part II), 1953 December 1

itemnumber: Report no. 216F
Creator: Crocco, Luigi; Grey, J.
Combustion instability in liquid propellant rocket motors (Part III), 1954 March 1

itemnumber: Report no. 216g
Creator: Crocco, Luigi; Grey, J.
Combustion instability in liquid propellant rocket motors (Part IV), 1955 June 1

itemnumber: Report no. 216i
Creator: Crocco, Luigi; Grey, J.
Combustion instability in liquid propellant rocket motors (Part V), 1956 December 1

itemnumber: Report no. 216r
Creator: Crocco, Luigi; Grey, J.
Combustion instability in liquid propellant rocket motors (Part VI), 1957 December 1

itemnumber: Report no. 216v
Creator: Crocco, Luigi; Grey, J.
A study of shock wave turbulent boundary layer interaction at M=3, 1953 July

Creator: Bogonoff, Seymour; Kepler, C.E.; Sanlorenzo, E.

Application of liquid propellant rocket as a turbojet thrust augmentation system, 1953

Creator: Scott, John

Operating characteristics of the Princeton University 14''x2'' smoke tunnel, 1953 April

Creator: Finley, H.B.; Hazen, D.C.

Further correlation of observed and theoretical helicopter dynamic longitudinal response characteristics, 1953 March 31

Creator: Seckel, E.

On the flow at the rear of a two-dimensional supersonic airfoil with thickness, 1953 May 1

Creator: Probstein, Ronald F.

Model study of helicopter dynamic stability and control, 1953 May

Creator: Gebhard, David F.; Goland, L.; Gray, Robin B.; McCaskill, Allan M.; Nikolsky, A. A.

Tandem helicopter longitudinal stability and control, 1953 June

Creator: Gebhard, John G.; Seckel, E.

Preliminary report on circulation control by means of trailing edge suction and the cusp effect, 1953 June 15

Creator: Hazen, D.C.; Lehnert, R.F.; Ringleb, F.O.; Sweeney, Thomas E.

Combustion instability in liquid propellant rocket motors (Part VII), 1959 May 1

Creator: Crocco, Luigi; Harrje, D.T.
Combustion instability in liquid propellant rockets motors (Part VIII), 1959 September 15

itemnumber: Report no. 216cc
Creator: Condomines, A.; Crocco, Luigi; Harrje, D.T.

On the recovery factor for hypersonic flow with a self-induced pressure gradient, 1953 January 19

itemnumber: Report no. 217
Creator: Lees, Lester; Probstein, Ronald F.

The effects of rotor blade flexibility and unbalance of helicopter hovering stability and control, 1953 February

itemnumber: Report no. 218
Creator: Goland, L.; Nikolsky, A. A.

Application of the ram rocket as a helicopter propulsion system, 1953 January 23

itemnumber: Report no. 219
Creator: Charyk, J. V.; Scott, John

The effect of spring and inertia devices on longitudinal stability, 1953 February 16

itemnumber: Report no. 220
Creator: Perkins, Courtland D.

High frequency combustion instability in solid propellant rockets, 1953 February

itemnumber: Report no. 221
Creator: Cheng, Sin-i

The effect of viscous and elastic control system restraints on helicopter hovering stability and control, 1953 March

itemnumber: Report no. 223
Creator: McCaskill, Allan M.; Nikolsky, A. A.

A generalized performance analysis of the ram rocket power plant and associated applications, 1953 July 6

itemnumber: Report no. 235
Creator: Charyk, J. V.; Glassman, Irvin; John, Richard R.

Effects of spring and inertia devices on the longitudinal stability of aircraft, 1953 July

itemnumber: Report no. 236
Creator: Goldberg, Joseph H.; Perkins, Courtland D.

Interaction of a turbulent boundary layer with a step at M=3, 1953 September 1
itemnumber: Report no. 238
Creator: Bogonoff, Seymour; Kepler, C.E.
Circulation control by means of trailing edge suction, 1953 August 31

itemnumber: Report no. 239
Creator: Hazen, D.C.; Lehnert, R.F.; Ringleb, F.O.; Sweeney, Thomas E.
On the design of models for helicopter research and development, 1953 October

itemnumber: Report no. 240
Creator: Goland, L.; Nikolsky, A. A.
Circulation control by means of trailing edge suction, 1953 September 15

itemnumber: Report no. 241
Creator: Hazen, D.C.; Lehnert, R.F.; Sweeney, Thomas E.
Model simulation of twin-rotor helicopter dynamic stability and control, 1953 November

itemnumber: Report no. 242
Creator: Gebhard, David F.; Goland, L.; Nikolsky, A. A.
Low frequency combustion stability of liquid rocket motor with different nozzles, 1953

itemnumber: Report no. 244
Creator: Cheng, Sin-i
Smoke tunnel investigation of a flap configuration developed by chase aircraft co., 1953

itemnumber: Report no. 245
Creator: Hazen, D.C.; Lehnert, R.F.
High frequency combustion instability in liquid propellant rocket with concentrated combustion and distributed time lag, 1953 November

itemnumber: Report no. 246
Creator: Cheng, Sin-i
A proposed model track facility for dynamic studies of helicopters in forward flight, 1954 January

itemnumber: Report no. 247
Creator: Sayre, D.C.
A review of rotor induced velocity field theory, 1954 January

itemnumber: Report no. 248
Creator: Gray, Robin B.; Nikolsky, A. A.

Separation of a supersonic turbulent boundary layer, 1954 January
  itemnumber: Report no. 249

Creator: Bogonoff, Seymour; Kepler, C.E.

Model study of helicopter dynamic stability and control, 1953 November
  itemnumber: Report no. 250

Creator: Gray, Robin B.; Nikolsky, A. A.

Concepts and theory of combustion instability, 1954
  itemnumber: Report no. 251

Creator: Cheng, Sin-i

The peak pressure rise across an oblique shock emerging from a turbulent boundary layer over a plane surface, 1954 March
  itemnumber: Report no. 254

Creator: Crocco, Luigi; Probstein, Ronald F.

Smoke tunnel investigation of a circulation control system utilizing blowing over a deflected fowler flap, 1954 April
  itemnumber: Report no. 257

Creator: Hazen, D.C.; Lehnert, R.F.

The Princeton Helium Hypersonic Tunnel and preliminary results above M=11, 1954 June
  itemnumber: Report no. 260

Creator: Bogonoff, Seymour; Hammitt, A.G.

The transverse curvature effect in compressible axially-symmetric laminar boundary layer flow, 1954 April
  itemnumber: Report no. 261

Creator: Elliott, David; Probstein, Ronald F.

Hypersonic similarity and the tangent-cone approximation for unyawed bodies of revolution, 1954 May
  itemnumber: Report no. 262

Creator: Bray, Kenneth N.C.; Probstein, Ronald F.

Heat transfer in oscillating flow, 1954 January 15
  itemnumber: Report no. 266

Creator: Crocco, Luigi; Layton, J.P.
The physical structure of turbulent flames, 1954 July
  itemnumber: Report no. 268
  Creator: Kebely, Victor; Mascolo, Richard W.; Reiter, Sydney H.; Summerfield, Martin

The static pressure variation in compressible free jets, 1954 July 16
  itemnumber: Report no. 270
  Creator: Warren Jr., Walter R.

Theoretical performance evaluation of ram rocket power plants, 1954 June 29
  itemnumber: Report no. 271
  Creator: Charyk, J. V.; John, Richard R.

An experimental evaluation of the ram rocket power plant, 1954 June 29
  itemnumber: Report no. 272
  Creator: Charyk, J. V.; Glassman, Irvin; Scott, John

Application of the ram rocket as a helicopter propulsion system, 1954 June 29
  itemnumber: Report no. 273
  Creator: Charyk, J. V.; Scott, John

The smoke tunnel of the Institute of Aeronautical Engineering at the University of Naples, 1954 February 1
  itemnumber: Report no. 276
  Creator: Pascale, Luigi

A study of the flow about simple bodies at mach numbers from 11 to 15, 1954 September
  itemnumber: Report no. 277
  Creator: Bogonoff, Seymour; Hammitt, A.G.

Preliminary evaluation of circulation control systems utilizing split flaps, 1954 September 1
  itemnumber: Report no. 278
  Creator: Hazen, D.C.

Determination of the effective axial induced flow pattern through a helicopter rotor from pressure measurements, 1954 October
  itemnumber: Report no. 279
  Creator: Gray, Robin B.; Nikolsky, A. A.

Evaluation of liquid ozone-oxygen mixtures as rocket oxidizers, 1954 September 15
itemnumber: Report no. 282a
Creator: Charyk, J. V.; Marshall Jr., O.W.
Tandem helicopter preliminary flight test report, 1955 January

itemnumber: Report no. 284
Creator: Goldberg, Joseph H.; Seckel, E.
A smoke tunnel investigation of a Sikorsky S-56 blade section fitted with the Griswold leading edge blowing slot, 1955 January

itemnumber: Report no. 285
Creator: Lehnert, R.F.
A theoretical analysis of the lateral dynamic stability of tandem helicopters, 1955 January

itemnumber: Report no. 286
Creator: Seckel, E.; Steffens, J.
Basic lateral control characteristics of the I-21 airplane, 1955 February

itemnumber: Report no. 287
Creator: Sweeney, Thomas E.
Calibration of the princeton university subsonic instructional wind tunnel, 1954 September

itemnumber: Report no. 288
Creator: Carter, Roger; Landis, Houston; Wilkinson, Robert; Williams, Forman A.
A theoretical investigation on the determination of lift coefficients in two dimensional smoke tunnels, 1955 March

itemnumber: Report no. 289
Creator: Knowlton, M.P.
Smoke flow studies conducted at Princeton University, 1955

itemnumber: Report no. 290
Creator: Hazen, D.C.; Lehnert, R.F.
Preliminary full scale measurements of jet spoiler performance on the I-21 airplane, 1955 March 31

itemnumber: Report no. 291
Creator: Sweeney, Thomas E.
Interaction of a shock wave with a turbulent boundary layer at m=3.85, 1955 April

itemnumber: Report no. 294
Creator: Bogonoff, Seymour; Vas, I.E.

Interaction of a turbulent boundary layer with a step at m=3.85, 1955 April
  itemnumber: Report no. 295

Creator: Bogonoff, Seymour; Vas, I.E.

A detailed study of the interaction of a 14 degree shock wave with a turbulent boundary layer at m=2.9, 1955 April
  itemnumber: Report no. 296

Creator: Vas, I.E.

Operating characteristics of the Princeton University 36" x 2" smoke tunnel, 1958 July
  itemnumber: Report no. 299

Creator: Hazen, D.C.; Lehnert, R.F.

Methods of computing optimum climb paths, 1955
  itemnumber: Report no. 300

Creator: Dommasch, Daniel O.

A low speed wind tunnel investigation of a 64-010 airfoil section with nose flap and split trailing edge flap, 1955 July 25
  itemnumber: Report no. 301

Creator: Dike, D.J.

Three dimensional smoke tunnel evaluation tests of the dart configuration delta wing equipped with the griswold leading edge blowing slot and elevon blowing control, 1955 April 13
  itemnumber: Report no. 303

Creator: Hazen, D.C.; Lehnert, R.F.

Investigation of suction flaps, 1955 April 21
  itemnumber: Report no. 304

Creator: Ringleb, F.O.

Some aspects of unsteady laminar boundary layer flows, 1955 July 1
  itemnumber: Report no. 311

Creator: Cheng, Sin-i

On the motion of the helical vortex shed from a single-bladed hovering model helicopter rotor and its application to the calculation of the spanwise aerodynamic loading, 1955 September
  itemnumber: Report no. 313
Investigation of dynamic performance equations for an airplane exhibiting a steep drag rise of large magnitude, 1955
     itemnumber: Report no. 314

Creator: Thrig, Ann H.

Flow control by generation of standing vortices and the cusp effect, 1955 July 27
     itemnumber: Report no. 317

Creator: Ringleb, F.O.

The unsteady laminar boundary on a flat plate, 1955 September
     itemnumber: Report no. 318

Creator: Cheng, Sin-i; Elliott, David

Experimental flame temperatures of an ammonium perchlorate solid propellant, 1955 September 2
     itemnumber: Report no. 319

Creator: Mahaffy, Dwight; Summerfield, Martin; Sutherland, George S.

A study of the anticlastic deflections of thin plates in bending, 1955 August
     itemnumber: Report no. 320

Creator: Ginoux, Jean J.

A simple method for the construction of fixed two dimensional wind tunnel nozzles without machined contours, 1955 September
     itemnumber: Report no. 321

Creator: Bogonoff, Seymour

Studies of the mechanism of flame stabilization by a spectral intensity method, 1955 September 2
     itemnumber: Report no. 323

Creator: John, Richard R.; Summerfield, Martin; Wilson, Edward S.

Leading edge effects on the flow over a flat plate at hypersonic speeds, 1955 September
     itemnumber: Report no. 326

Creator: Bogonoff, Seymour; Hammitt, A.G.; Vas, I.E.

A preliminary study of the details of the flow field about a flat plate at hypersonic speeds, 1955 November 1
     itemnumber: Report no. 327

Creator: Hammitt, A.G.
Approximate and exact techniques of optimum climb determination for model 4-a configuration, 1955 September 21

  itemnumber: Report no. 328
  Creator: Thrig, Ann H.

The critical study of a boundary condition on Prandtl's boundary layer theory and its applications, 1955 September

  itemnumber: Report no. 329
  Creator: Cheng, Sin-i

Two dimensional characteristics of TESABOF system applied to NACA 64010 profile, 1955

  itemnumber: Report no. 330

Methods of dynamic performance as applied to the minimum time to climb problem, 1956 March 21

  itemnumber: Report no. 331
  Creator: Dommasch, Daniel O.

The effect of support interference on the base pressure of a body of revolution at high reynolds numbers, 1955 October

  itemnumber: Report no. 332
  Creator: Bogonoff, Seymour; Sivier, Kenneth R.

A comparison of the calculated and observed flutter characteristics of a helicopter rotor blade having both control system and blade flexibility, 1955 December

  itemnumber: Report no. 333
  Creator: Goland, L.; Nikolsky, A. A.; Perlmutter, A.

Combustion processes in liquid propellant rocket motors, 1956 January 23

  itemnumber: Report no. 334a
  Creator: Crocco, Luigi; Glassman, Irvin; Smith, I.

Aerodynamics of flame stabilization (Part I), 1956 February 15

  itemnumber: Report no. 335a
  Creator: Cheng, Sin-i; Kovitz, A.A.

Aerodynamics of flame stabilization (Part II), 1956 November 15

  itemnumber: Report no. 55d
  Creator: Cheng, Sin-i; Kovitz, A.A.

Aerodynamics of flame stabilization (Part III), 1957 February 15

  itemnumber: Report no. 335e
Creator: Cheng, Sin-i; Kovitz, A.A.
Aerodynamics of flame stabilization (Part IV), 1959 July 15
  itemnumber: report. 335n
Creator: Cheng, Sin-i; Chiu, H.H.
Some experimental studies of the separation of supersonic turbulent boundary layers, 1955 June
  itemnumber: Report no. 336
Creator: Bogonoff, Seymour
Wind tunnel tests of a circulation control system, 1956 February
  itemnumber: Report no. 337
Creator: Hazen, D.C.; Lehnert, R.F.
Instrumentation of a tandem helicopter for static and dynamic stability and control flight tests, 1956 March
  itemnumber: Report no. 338
Creator: Anderson, Thomas; Durbin, Enoch; Goldberg, Joseph H. ; McCredie, Wilson; Seckel, E.
Unsteady laminar boundary layer over a flat plate in the downstream region, 1956 March
  itemnumber: Report no. 339
Creator: Chang, I.D.; Cheng, Sin-i
An approximate theory of turbulent boundary layer shock wave interaction, 1956 April
  itemnumber: Report no. 340
Creator: Hammitt, A.G.
Two dimensional smoke tunnel investigations of the jet flap, 1956 June
  itemnumber: Report no. 341
An investigation of a leading-edge flapped thin profile utilizing blowing at the flap break, 1956 May
  itemnumber: Report no. 342
Creator: Chauncey, W.E.; Dike, D.J.; Lehnert, R.F.
Evaluation of acetylenic compounds for ram rocket applications, 1956 March 15
  itemnumber: Report no. 343
Creator: Glassman, Irvin
Ignition in the laminar wake of a flat plate, 1956 May
  itemnumber: Report no. 347
  Creator: Cheng, Sin-i; Kovitz, A.A.

A study of the low speed aerodynamic characteristics of high-lift flow controlled profiles and wings, 1958 May
  itemnumber: Report no. 349
  Creator: Dike, D.J.; Dunn, H.S.

The effects of a spanwise variation of the section shear center position on the flutter characteristics of a helicopter blade, 1956 May
  itemnumber: Report no. 350
  Creator: Goland, L.; Perlmutter, A.

3-dimensional smoke tunnel tests of the flow around a model of the grumman F11F1, 1956 June
  itemnumber: Report no. 351

Two dimensional smoke tunnel tests of Fairchild Aircraft Division Wagner 1B model, 1956 May
  itemnumber: Report no. 354

A method for optimizing two-dimensional airfoils, 1956 May
  itemnumber: Report no. 355
  Creator: Cincotta, Thomas A.

Comparative drag studies of two helicopter landing gear configurations, 1956 July
  itemnumber: Report no. 357
  Creator: Hazen, D.C.; Lehnert, R.F.

Theoretical and experimental investigations of circulation control, 1956 July
  itemnumber: Report no. 358
  Creator: Berthoff, T.M.; Hazen, D.C.

An economical technique for the construction and hovering flight evaluation of dynamically similar helicopter models, 1956 November
  itemnumber: Report no. 373
  Creator: Gebhard, David F.; Goland, L.

Ram Rockets, 1956 July 31
itemnumber: Report no. 360  
Creator: Glassman, Irvin  
Stability and control of tandem helicopters, 1956 September

itemnumber: Report no. 362  
Creator: Goldberg, Joseph H.; Seckel, E.  
Tandem helicopter lateral stability and control, 1956 October

itemnumber: Report no. 363  
Creator: Graziani, Gerald; Seckel, E.  
Monopropellant rocket program, 1956 October 22

itemnumber: Report no. 364a  
Creator: Glassman, Irvin  
Two dimensional tests of a 23015 airfoil with a jet spoiler and various flaps, 1956 October 20

itemnumber: Report no. 365  
Creator: Childress, W.S.; Gould, A.V  
An investigation of the aerodynamic forces and moments acting upon the Vertol H-16B Fuselage, 1957 January

itemnumber: Report no. 367  
Creator: Lehnert, R.F.  
An experimental and analytical evaluation of the Ram Rocket power plant, 1957 January 17

itemnumber: Report no. 368  
Creator: Glassman, Irvin  
A mixing of supersonic and subsonic gas streams, 1957 May 15

itemnumber: Report no. 369  
Creator: Glassman, Irvin  
An analysis of the interaction of shock waves with unseparated turbulent boundary layers, 1957 February

itemnumber: Report no. 371  
Creator: Hammitt, A.G.  
An economical technique for the construction and hovering flight evaluation of dynamically similar helicopter models, 1956 November

itemnumber: Report no. 373
Creator: Gebhard, David F.
On the mixing theory of crocco and lees and its application to the interaction of shock wave and laminar boundary layer, 1957 May
  itemnumber: Report no. 376

Creator: Bray, Kenneth N.C.; Cheng, Sin-i
An experimental investigation of the pressure on a thin flat plate at hypersonic speeds, 1957 March
  itemnumber: Report no. 377

Creator: Vas, I.E.
The hypersonic viscous effect on a flat plate with finite leading edge, 1957 March
  itemnumber: Report no. 378

Creator: Hammitt, A.G.
Transverse wave and entropy wave combustion instability in liquid propellant rocket motors, 1957 April 1
  itemnumber: Report no. 380

Creator: Scala, Sinclaire M.; Crocco, Luigi; Grey, J.; Scala, Sinclaire M.
An experimental investigation of the flow over simple two-dimensional and axial symmetric bodies at hypersonic speeds, 1957 June
  itemnumber: Report no. 382

Creator: Bogonoff, Seymour; Hammitt, A.G.; Vas, I.E.
Fluid wings, 1957 June
  itemnumber: Report no. 383

Creator: Augustine , N.R.; Hazen, D.C.
The design and operation of the Princeton University 12" x 16" smoke tunnel, 1957 September
  itemnumber: Report no. 392

Summary report of work accomplished on contract N6onr 27016, 1957 June
  itemnumber: Report no. 393

Creator: Hazen, D.C.
Stability and control of tandem helicopters, 1957 July
  itemnumber: Report no. 395

Creator: Goldberg, Joseph H.; Piper, Robert R.; Seckel, E.
An analysis of the effect of shock waves on turbulent boundary layers, 1957 July
itemnumber: Report no. 396
Creator: Hammitt, A.G.; Hight, S.; Vas, I.E.
A flow reactor for high temperature reaction kinetics, 1957 June 7

itemnumber: Report no. 398
Creator: Crocco, Luigi; Glassman, Irvin; Smith, I.
An investigation of the aerodynamic forces and moments acting upon a 1/12 scale model of the vertol 107 helicopter, 1957 September

itemnumber: Report no. 400
Creator: Hazen, D.C.; Lehnert, R.F.
Three-dimensional smoke tunnel investigations of the fuselage flow about a 1.5% scale model of the douglas c-133a airplane, 1957 November

itemnumber: Report no. 402
Creator: Hazen, D.C.; Lehnert, R.F.
Stability and control of unducted stand-on helicopters, 1957 November

itemnumber: Report no. 404
Creator: Seckel, E.; Townsend Jr. , M.W.
A method for measuring lift distrubtion in low speed wind tunnels, 1958 March

itemnumber: Report no. 405
Creator: Cromwell III, C.H.
3 dimensional smoke flow studies of the fairchild m 233 wing, 1958 January

itemnumber: Report no. 406
Creator: Carstens, J.P.
Conditions governing the initial slope of a sonic line on a blunt body, 1958 February

itemnumber: Report no. 408
Creator: Hammitt, A.G.; Sullivan, John J.
Experimental investigations of the two-dimensional limitations on maximum lift coefficient using small split flaps, a blowing jet, and boundary layer control, 1958 February

itemnumber: Report no. 410
The design and operation of the princeton university 3'x4' three-dimensional smoke tunnel, 1958 March
Creator: Carstens, J.P.
Preliminary investigations of spiked bodies at hypersonic speeds, 1958 March
  itemnumber: Report no. 412

Creator: Bogonoff, Seymour; Vas, I.E.
A preliminary two-dimensional smoke tunnel study on the application of powered circulation control systems to a highly deflected double slotted flap on the douglas dsma-98 airfoil, 1958 April
  itemnumber: Report no. 414

Creator: Snell, J.E.
Solution of the three-dimensional laminar boundary layer over the surface of a rotating cone, 1958 April
  itemnumber: Report no. 415

Creator: Wu, Ching-Sheng
The kinetics and mechanism of ethylene oxide decomposition at high temperatures, 1958 April 10
  itemnumber: Report no. 416

Creator: Crocco, Luigi; Glassman, Irvin; Smith, I.
Chemically frozen boundary layers with surface reaction, 1958 March
  itemnumber: Report no. 419

Creator: Rosner, D.E.
Design study of a modified high lift and lateral control system for the L-21 airplane, 1958 July
  itemnumber: Report no. 422

Creator: Childress, W.S.
A study of the injection and combustion of premixed gases in throatless rocket motors, 1958 June 2
  itemnumber: Report no. 423

Creator: Glassman, Irvin
Project squid, 1958 June 13
  itemnumber: Report no. 425

Creator: Layton, J.P.
Aerodynamics of flame stabilization experimental procedures, 1958 July 1
  itemnumber: Report no. 426

Creator: Sherman, A.
On the mechanisms of meteoric ablation, 1958 April
  itemnumber: Report no. 427
  Creator: Cheng, Sin-i

Shock induced unsteady laminar compressible boundary layers on a semi-infinite flat plate, 1958 September
  itemnumber: Report no. 428
  Creator: Crocco, Luigi; Lam, S.H.

Preliminary study of the light scattering technique for determination of size distributions in burning sprays, 1958 July 15
  itemnumber: Report no. 430
  Creator: Crocco, Luigi; Dobbins, R.A.; Glassman, Irvin

Axisymmetric stagnant flow of a viscous and electrically conducting fluid near the blunt nose of a spinning body with presence of a magnetic field, 1958 April
  itemnumber: Report no. 431
  Creator: Hayes, Wallace D. ; Wu, Ching-Sheng

Research on the ignition of solid propellants, 1958 August 14
  itemnumber: Report no. 433m
  Creator: McAlevy, R. ; Summerfield , Martin

Investigation of the interaction of a turbulent boundary layer with pradtl-meyer expansion fans at m=1.88, 1958 August
  itemnumber: Report no. 434
  Creator: Hammitt, A.G.; Murthy, K.R. Ananda

Experimental studies at mach numbers 12 to 19 on conical and blunted bodies at zero angle of attack, 1958 September
  itemnumber: Report no. 435
  Creator: Bogonoff, Seymour; Vas, I.E.

A class of exact solutions of the magnetohydrodynamic Navier-Stokes equations, 1958 September
  itemnumber: Report no. 436
  Creator: Wu, Ching-Sheng

An exploratory study at m=14 of the flow about a hemisphere cylinder at angle of attack, 1958 September
  itemnumber: Report no. 438
  Creator: Bogonoff, Seymour; Vas, I.E.
On the flow of gases under nearly free molecular conditions, 1958 December
  itemnumber: Report no. 442
  Creator: Willis, D. Roger

Research on burning rate control factors in solid propellants, 1959 April 27
  itemnumber: Report no. 446a
  Creator: Bastress, E. Karl; Hall, Kimball P.; Summerfield, Martin

Burning rate control factors in solid propellants, 1962 July 17
  itemnumber: Report no. 446m
  Creator: Cole, Richard; Hall, Kimball P.; Summerfield, Martin; Wenograd, Joseph

On the flow past a sphere at hypersonic speed with a magnetic field, 1959 March 24
  itemnumber: Report no. 448
  Creator: Freeman, N.C.

Approximate solutions for supersonic flow over wedges and cones, 1959 April
  itemnumber: Report no. 449
  Creator: Hammitt, A.G.; Murthy, K.R. Ananda

Hypersonic studies of blunt unswept wings, 1959 April
  itemnumber: Report no. 450
  Creator: Bogonoff, Seymour; Vas, I.E.

Hypersonic studies of blunt two-dimensional swept wings at zero angle of attack, 1959 April
  itemnumber: Report no. 451
  Creator: Bogonoff, Seymour; Vas, I.E.

Notes on derivation of empirical charts for calculation of rotor blade airloads, 1959 May
  itemnumber: Report no. 458
  Creator: Nikolsky, A. A.

The stability of propellants and the theory of thermal ignition, 1959 May
  itemnumber: Report no. 460
  Creator: Glassman, Irvin

Approach to a flying flight simulator, 1959 May
  itemnumber: Report no. 461
Creator: Seckel, E.; Witt, Howard R.
Further studies on the light scattering technique for determination of size distributions in burning sprays, 1959 April 10
   itemnumber: Report no. 463
Creator: Crocco, Luigi; Dobbins, R.A.; Glassman, Irvin
Longitudinal stability and control of a ducted-rotor flying platform, 1959 May
   itemnumber: Report no. 464
Creator: Seckel, E.; Traybar, Joseph J.
Operational experience in the mach number 10-20 range in the Princeton University helium hypersonic wind tunnel, 1959 September
   itemnumber: Report no. 465
Creator: Bogonoff, Seymour; Vas, I.E.
On a singular point in the newtonian theory of hypersonic flow, 1959 May
   itemnumber: Report no. 466
Creator: Freeman, N.C.
On the newtonian theory of hypersonic flow for a blunt body, 1959 May
   itemnumber: Report no. 467
Creator: Freeman, N.C.
Hypersonic viscous flow past a blunt body with an applied magnetic field, 1958 November
   itemnumber: Report no. 443
Creator: Wu, Ching-Sheng
A note on the pressure disturbance at ground level caused by high-flying supersonic aircraft, 1958 December
   itemnumber: Report no. 444
Creator: Freeman, N.C.; Lam, S.H.
Simple vorticity laws in magnetohydrodynamics, 1958 November
   itemnumber: Report no. 445
Creator: Wu, Ching-Sheng
Interaction of a two-dimensional inviscid incompressible jet facing a hypersonic stream, 1959 March
   itemnumber: Report no. 447
Creator: Lam, S.H.
On the limiting structure of the edge of a hypersonic boundary layer with very cold free streams, 1959 May
   itemnumber: Report no. 468
   Creator: Freeman, N.C.; Lam, S.H.
Heat transfer through a region of closed-streamline, 1959 May
   itemnumber: Report no. 469
   Creator: Lam, S.H.
On the mach number independence principle for a hypersonic boundary layer, 1959 July
   itemnumber: Report no. 471
   Creator: Freeman, N.C.; Lam, S.H.
Considerations of high temperature heaters for aerodynamic and kinetic studies, 1959 July 15
   itemnumber: Report no. 472
   Creator: Brzustowski, Thomas A.; Glassman, Irvin
Metal combustion processes, 1959 August
   itemnumber: Report no. 473
   Creator: Glassman, Irvin
An investigation of a wall jet in a free stream, 1959 September
   itemnumber: Report no. 479
   Creator: George, Albert R.
Numerical solutions of shock-induced unsteady boundary layers, 1959 August
   itemnumber: Report no. 480
   Creator: Lam, S.H.
Combustion instability in solid rockets using propellants with suspended metallic powders, 1959 September
   itemnumber: Report no. 482
   Creator: Cheng, Sin-i
Heat transfer in oscillating flow (Part I), 1959 October 3
   itemnumber: Report no. 483
   Creator: Crocco, Luigi; Croke, E.; Harrje, D.T.
Heat transfer in oscillating flow (Part II), 1963 July 15
   itemnumber: Report no. 483e
Creator: Harrje, D.T.; Marec, Jean-Pierre
Some qualitative characteristics of a two-dimensional peripheral jet, 1959 September
  itemnumber: Report no. 484
Creator: Nixon, W.B.; Sweeney, Thomas E.
The boundary layer in a corner, 1959 November
  itemnumber: Report no. 485
Creator: Levy, Richard H.
Heat transfer from an ionized gas to a gaseous coolant, 1959 August 31
  itemnumber: Report no. 487a
Creator: Grey, J.
The calculation of velocity and temperature profiles through a weak normal shock with an expansion in powers of a shock strength parameter, 1959 November
  itemnumber: Report no. 488
Creator: Sichel, Martin
A review of the wing-slipstream problem with experiments on a wing spanning a circular jet, 1960 January
  itemnumber: Report no. 489
Creator: Gobetz, Frank W.
Consideration of hydrazine decomposition, 1959 December 11
  itemnumber: Report no. 490
Creator: Eberstein, I.J.; Glassman, Irvin
Dimensionless parameters for viscous similarity, 1959 December
  itemnumber: Report no. 491
Creator: Hammitt, A.G.
An investigation of the aerodynamic forces and moments acting upon a 1/220 scale model tanker, 1959 December
  itemnumber: Report no. 492
Creator: Lehnert, R.F.
Some notes on the ground effect phenomena and the princeton program, 1959 December
  itemnumber: Report no. 493
Creator: Sweeney, Thomas E.
Effect of c.g. position, duct area ratio and duct angle ratio on the performance of an aerial jeep, vtol type aircraft, 1960 January

  itemnumber: Report no. 494

  Creator: Traybar, Joseph J.

Required lateral handling qualities for helicopters in low-speed instrument flight, 1960 February

  itemnumber: Report no. 496

  Creator: Gangwish, Robert C.; Goldberg, Joseph H.

Free molecule flow over non-convex bodies, 1960 February

  itemnumber: Report no. 497

  Creator: Cohen, Ira M.

Further studies on the light scattering technique for determination of size distributions in burning sprays - II wide range photographic photometry, 1960 February 10

  itemnumber: Report no. 498

  Creator: Crocco, Luigi; Dobbins, R.A.; Glassman, Irvin

Some research problems in the steady-state burning of composite solid propellants, 1960 March 10

  itemnumber: Report no. 499

  Creator: Bastress, E. Karl; Blair, D.W.; Hall, Kimball P.; Hermance, C.E.; Summerfield, Martin

An analysis of the effects of perfect gas parameters on gas turbine performance, 1959 December

  itemnumber: Report no. 500

  Creator: Hammitt, A.G.

Exploratory drag measurement techniques utilizing an L-21 airplane, 1960 March

  itemnumber: Report no. 501

  Creator: Sweeney, Thomas E.

Interim report on a flying vtol flight simulator study, 1960 March

  itemnumber: Report no. 502

  Creator: Dukes, Theodor; Gangwish, Robert C.; Seckel, E.

Application of small-scale propeller test data to v/stol aircraft design, 1961 October

  itemnumber: Report no. 503
Creator: Payne III, Henry E.
A technical report on the mechanism of ignition of composite solid propellants by hot gases, 1960 April 4
  itemnumber: Report no. 505

Creator: Cowan, P.L.; McAlevy, R.; Summerfield, Martin
Preliminary flight experiments with the princeton university twenty-foot ground effect machine, 1960 January
  itemnumber: Report no. 506

Creator: Nixon, W.B.; Sweeney, Thomas E.
Drag investigation of bodies of revolution with shrouds, 1960 May
  itemnumber: Report no. 513

Creator: Payne III, Henry E.
A vector addition method of analyzing non-utility feedback control systems, 1960 May
  itemnumber: Report no. 514

Creator: Swanson, Brian C.
An experimental investigation of helicopter stability characteristics near hovering flight using a dynamically similar model, 1960 July
  itemnumber: Report no. 517

Creator: Bennett, Robert M.; Curtiss, Howard C.
The anomaly in the application of PLK and parabolic coordinates to the trailing edge boundary layer, 1960 April
  itemnumber: Report no. 519

Creator: Cheng, Sin-i; Goldburg, Arnold
A preliminary evaluation of the use of an airship as a test vehicle for vtol/stol aircraft models, 1960 August
  itemnumber: Report no. 520

Creator: Hazen, D.C.; Lehnert, R.F.; Payne III, Henry E.
A feasibility study of a special purpose airborne delivery system, 1960 May
  itemnumber: Report no. 521

Creator: Erlandsen, Peter O.; Griffin Jr., Arthur B.
Aerodynamics of flame stabilization (Part V), 1960 October 1
  itemnumber: Report no. 522

Creator: Cheng, Sin-i; Chiu, H.H.
Planform characteristics of peripheral jet wings, 1961 December
  itemnumber: Report no. 524
  Creator: Nixon, W.B.; Sweeney, Thomas E.

Development of a graphite resistance heater for a hypersonic wind tunnel using nitrogen, 1960 October
  itemnumber: Report no. 527
  Creator: Boersen, S.J.; Lord, W.; Shreeve, R.P.

Self-similar fluids, 1960 July
  itemnumber: Report no. 528
  Creator: Hayes, Wallace D.; Wecker, Myron S.

Mach and reynolds number effects on the flows over blunt flat plates at hypersonic speeds, 1960 November
  itemnumber: Report no. 529
  Creator: Bogonoff, Seymour; Vas, I.E.

Summary technical report on transient pressure methods research (Part I), 1963 September
  itemnumber: Report no. 595f
  Creator: Knauer, R.C.; Layton, J.P.; Thomas, J.P.

Summary technical report on transient pressure measuring methods research (Part II), 1963 December 6
  itemnumber: Report no. 595i
  Creator: Knauer, R.C.; Layton, J.P.; Thomas, J.P.

Summary technical report on transient pressure methods research (Part III), 1965 November 16
  itemnumber: Report no. 595p
  Creator: Layton, J.P.; Thomas, J.P.

Heat transfer measurements with water cooled flush diaphragm pressure transducers, 1966 March 18
  itemnumber: Report no. 595r
  Creator: Layton, J.P.; Megerman, J.; Thomas, J.P.

Hot-wire heat loss and fluctuation sensitivity for incompressible flow, 1962 January
  itemnumber: Report no. 596
  Creator: Webb, W.H.
An experimental study of the decay of turbulent energy in several gases and at high and low density, 1962 January
  itemnumber: Report no. 598
  Creator: Webb, W.H.

A calorimetric probe for the measurement of high gas temperatures, 1962 April
  itemnumber: Report no. 602
  Creator: Grey, J.; Jacobs, Paul, 1918- -- Correspondence.

The continuum theory of spherical electrostatic probes, 1962 April
  itemnumber: Report no. 605
  Creator: Lam, S.H.; Su, C.H.

Heat transfer in a rarefied gas between parallel plates at large temperature ratios, 1962 October
  itemnumber: Report no. 615
  Creator: Willis, D. Roger

The flow about the leading edge of a swept blunt plate at hypersonic speeds, 1962 June
  itemnumber: Report no. 616
  Creator: Horstman, C.C.; Vas, I.E.

An investigation of gas damping for small amplitude high frequency vibrations, 1963 April
  itemnumber: Report no. 617
  Creator: Castillo Martinez, E.

Vortex lift- a new flow phenomenon, 1962 September
  itemnumber: Report no. 618
  Creator: Knowlton, M.P.; Perkins, W.E.; Sweeney, Thomas E.

Some results for plane poiseuille flow of rarefied gases, 1962 August
  itemnumber: Report no. 619
  Creator: Pao, Y.P.

Experimental investigation of boundary layer transition on a flat plate with a point heat source at the leading edge, 1962 August
  itemnumber: Report no. 623
  Creator: McCroskey, W.J.

Theoretical and experimental investigations of longitudinal high-frequency combustion instability in a gas-fueled rocket motor, 1962 September
itemnumber: Report no. 624
Creator: Bertrand, Jacques; Crocco, Luigi; Glassman, Irvin
The two-dimensional, turbulent wall jet with and without an external free stream, 1963 May

itemnumber: Report no. 626
Creator: Verhoff, A.
The flow over a cylinder with various nose shapes at zero angle of attack at hypersonic speeds, 1963 January

itemnumber: Report no. 627
Creator: Horstman, C.C.
Reaction kinetics in turbulent flows, 1962 October

itemnumber: Report no. 629
Creator: Eberstein, I.J.; Glassman, Irvin
An exploratory study of instrument approaches with steep gradient aircraft, 1962 October

itemnumber: Report no. 630
Creator: G.E. Miller; Seckel, E.; Traybar, Joseph J.
A preliminary study of the rate of growth and decay of blowing-jet-induced circulation on two-dimensional profiles, 1962 December

itemnumber: Report no. 632
Creator: Hazen, D.C.; Karins, F.C.
Sensitivity analysis for the calorimetric probe, 1962 December

itemnumber: Report no. 633
Creator: Grey, J.
The formation and stability of an electromagnetic boundary in a pinch, 1963 June 30

itemnumber: Report no. 634a
Creator: Jahn, R.G.; Jaskowsky, Woldemar F. von
Pulsed electromagnetic gas acceleration (Part I), 1965 July 1

itemnumber: Report no. 634e
Creator: Jahn, R.G.; Jaskowsky, Woldemar F. von
Pulsed electromagnetic gas acceleration (Part II), 1967 July 1

itemnumber: Report no. 634i
Creator: Jahn, R.G.; Jaskowsky, Woldemar F. von

Pulsed electromagnetic gas acceleration (Part III), 1968 July 1
  itemnumber: Report no. 634k
Creator: Jahn, R.G.; Jaskowsky, Woldemar F. von

Pulsed electromagnetic gas acceleration (Part IV), 1969 July
  itemnumber: Report no. 634m
Creator: Jahn, R.G.; Jaskowsky, Woldemar F. von

Pulsed electromagnetic gas acceleration (Part V), 1970 July
  itemnumber: Report no. 634o
Creator: Clark, Kenn E.; George, Robert; Jahn, R.G.; Jaskowsky, Woldemar F. von

Pulsed electromagnetic gas acceleration (Part VI), 1971 July
  itemnumber: Report no. 634q
Creator: Clark, Kenn E.; Jahn, R.G.; Jaskowsky, Woldemar F. von

Pulsed electromagnetic gas acceleration (Part VII), 1972 July
  itemnumber: Report no. 634s
Creator: Clark, Kenn E.; Jahn, R.G.; Jaskowsky, Woldemar F. von

Boundary layer flow with suspended particles, 1962 August
  itemnumber: Report no. 620
Creator: Chiu, H.H.

Pulsed electromagnetic gas acceleration (Part VIII), 1973 July
  itemnumber: Report no. 634u
Creator: Clark, Kenn E.; Jahn, R.G.; Jaskowsky, Woldemar F. von

Pulsed electromagnetic gas acceleration (Part IX), 1973 July
  itemnumber: Report no. 634u
Creator: Clark, Kenn E.; Jahn, R.G.; Jaskowsky, Woldemar F. von

Pulsed electromagnetic gas acceleration (X), 1974 July
  itemnumber: Report no. 634w
Creator: Clark, Kenn E.; Jahn, R.G.; Jaskowsky, Woldemar F. von

Pulsed electromagnetic gas acceleration (Part XI), 1975 July
  itemnumber: Report no. 634y
Creator: Clark, Kenn E.; Jahn, R.G.; Jaskowsky, Woldemar F. von
Pulsed electromagnetic gas acceleration (XII), 1976 July
  itemnumber: Report no. 634aa
  Creator: Clark, Kenn E.; Jahn, R.G.; Jaskowsky, Woldemar F. von

Pulsed electromagnetic gas acceleration (Part XIII), 1978 April
  itemnumber: Report no. 634ac
  Creator: Clark, Kenn E.; Jahn, R.G.; Jaskowsky, Woldemar F. von

Research on solid propellant combustion instability, 1964 April 1
  itemnumber: Report no. 635
  Creator: Summerfield, Martin; Waesche, R.H.W.; Wenograd, Joseph

Pressure and heat transfer measurements over a circular cylinder at angles of
attack up to 15 degrees at m=11, 1963 January
  itemnumber: Report no. 637
  Creator: Horstman, C.C.

An experimental investigation of laminar hypersonic cavity flows, 1962 December
  itemnumber: Report no. 638
  Creator: Nicoll, K.M.

Experimental laminar heat transfer from an oscillating flat plate, 1963 February
  itemnumber: Report no. 639
  Creator: Evans, Norman A.

Some dynamic aspects of stability in low-speed flying machines, 1963 October
  itemnumber: Report no. 640
  Creator: Carballal, Jose M.; Dukes, Theodor; Lion, Paul M.

One-dimensional heterogenous two-phase flow in rocket nozzles, 1963 June
  itemnumber: Report no. 643
  Creator: Chiu, H.H.

A general theory for the flow of weakly ionized gases, 1963 April
  itemnumber: Report no. 644
  Creator: Lam, S.H.

The degree of approach to equilibrium in an atmospheric-pressure arcjet using
argon, 1963 April
  itemnumber: Report no. 645
  Creator: Grey, J.; Sherman, Martin P.
The use of the upper limit distribution function in light scattering theory as applied to droplet diameter measurement, 1963

itemnumber: Report no. 650
Creator: Roberts, J.H.; Webb, W.H.

Heat transfer from a partially ionized gas to a gaseous coolant, 1963 June

itemnumber: Report no. 651
Creator: Grey, J.; Jacobs, Paul, 1918- -- Correspondence.; Sherman, Martin P.; Williams, Peter M.

A theoretical analysis of heat transfer in regions of reverse flow, 1963 June

itemnumber: Report no. 652
Creator: Garvine, R.W.

An investigation of the pressures acting upon a 1/300th scale model of the NASA LOC C-5 vertical assembly building, 1963 August

itemnumber: Report no. 654
Creator: Lehnert, R.F.; Otsuka, S.

An experimental investigation of laminar hypersonic activity cavity flows, 1963 February

itemnumber: Report no. 655
Creator: Nicoll, K.M.

The general characteristics of winged ground effect machines, 1963 June

itemnumber: Report no. 657

Analytical-experimental correlation of radiation loss from an argon arcjet, 1963 July

itemnumber: Report no. 658
Creator: Grey, J.; Jacobs, Paul, 1918- -- Correspondence.; Sherman, Martin P.

A gas-triggered inverse pinch switch, 1963 August

itemnumber: Report no. 660
Creator: Casini, Albert L.; Jahn, R.G.; Jaskowsky, Woldemar F. von

A critical review of recent research on the mechanism of ignition of solid rocket propellants, 1963 August 26

itemnumber: Report no. 661
Creator: Hermance, C.E.; Shinnar, R.; Summerfield, Martin; Wenograd, Joseph
An investigation on methods of using a graphite resistance heater with air, 1963 October
   itemnumber: Report no. 663
   Creator: Bogonoff, Seymour; Vas, I.E.
Conceptual design study of a liquid-core nuclear rocket, 1963 September
   itemnumber: Report no. 655
   Creator: Grey, J.; Nelson, Seymour T.
The development of a small mach 10 hypersonic wind tunnel, 1963 March
   itemnumber: Report no. 666
   Creator: Vas, I.E.; Zarin, N.A.
An investigation of the application of feedback and comparator concepts to sensitive semiconductor instruments, 1964 May
   itemnumber: Report no. 668
   Creator: Born, Geradus J.; Durbin, Enoch
Further development of a graphite heater for high pressure nitrogen operation, 1963 October
   itemnumber: Report no. 669
   Creator: Harvey, J.K.; Vas, I.E.
Hydrofoil instability at low mass density ratios, 1964 March
   itemnumber: Report no. 670
   Creator: Brunelle, E.J.; Caporali, R.L.
A theoretical study of unsteady droplet burning; transients and periodic solutions, 1963
   itemnumber: Report no. 671
   Creator: Crocco, Luigi; Harrje, D.T.; Strahle, W.C.
Calculation of transport properties mixtures of helium and partly-ionized argon, 1973 December
   itemnumber: Report no. 673
   Creator: Grey, J.; Sherman, Martin P.
Tests of a hamilton standard four-way, 21-inch-diameter model propeller employing the U.S. navy airborne model test facility, 1964 April
   itemnumber: Report no. 675
   Creator: Olcott, John W.
A study of v/stol aerodynamic test facilities, 1964 January
itemnumber: Report no. 676
Creator: Knowlton, M.P.
A theoretical study of non-linear combustion instability: longitudinal mode, 1964 March

itemnumber: Report no. 677
Creator: Crocco, Luigi; Harrje, D.T.; Sirignano
The combinatory integral transform and its application to heun's equation, 1964 February

itemnumber: Report no. 678
Creator: Cheng, Sin-i; Chiu, H.H.
Propellant distribution surveys of f-1 injector elements, 1964 March 4

itemnumber: Report no. 680
Creator: Harrje, D.T.; Lee, D.H.
The Langmuir probe in a collisionless plasma, 1964 March

itemnumber: Report no. 681
Creator: Lam, S.H.
An electromagnetic suspension system for spherical models in a hypersonic wind tunnel, 1964 July

itemnumber: Report no. 682
Creator: Dukes, Theodor; Zapata, R.N.
Mass flow through a circular orifice and two-dimensional slit at high Knudsen numbers, 1964 March

itemnumber: Report no. 683
Creator: Willis, D. Roger
The dominant aerodynamic characteristics of a shaped gem, 1964 September

itemnumber: Report no. 684
Creator: Nixon, W.B.; Sweeney, Thomas E.; Wojciechowicz Jr., A.F.
An investigation of the ventilation system of the Lincoln Tunnel, 1964 April

itemnumber: Report no. 686
Creator: Hazen, D.C.; Lehnert, R.F.
The longitudinal equations of motion of an airborne towed vehicle incorporating an approximation of cable drag and inertia effects, 1964 May

itemnumber: Report no. 687
Creator: Law, E.H.
The Princeton University high pressure hypersonic nitrogen tunnel n-3, 1964 July
  itemnumber: Report no. 690

Creator: Koppenwallner, G.; Vas, I.E.
Incompressible cavity flows in two dimensions at low reynolds number, 1964 June
  itemnumber: Report no. 691

Creator: Hagerup, Henrik J.
An investigation of dynamic instability of a winged gem, 1964 December
  itemnumber: Report no. 692

Creator: Condit, P.M.; Harrington, J.E.
Research on solid propellant combustion instability, 1964 June 18
  itemnumber: Report no. 694a

Creator: Shinnar, R.; Summerfield, Martin; Waesche, R.H.W.; Wenograd, Joseph
Particle impingement on a nozzle wall, 1964 July
  itemnumber: Report no. 696

Creator: Cheng, Sin-i; Rimond, Y.
A wind-tunnel investigation of the effects of leading-edge blowing jets upon the
  lift, drag, and pitching moment of a 76 degree delta wing, 1964 July
  itemnumber: Report no. 697

Creator: Gabriel, Chester J.
A physical criterion for metal ignition, 1964 July
  itemnumber: Report no. 698

Creator: Glassman, Irvin; Mellor, Arthur M.
On the interactions of a solid body with a flowing collisionless plasma, 1964 July
  itemnumber: Report no. 699

Creator: Greenblatt, M.; Lam, S.H.
Some effects of atmospheric disturbances on an open return low speed wind
  tunnel, 1964 July
  itemnumber: Report no. 700

Creator: Seckel, E.
A qualitative wind tunnel study of the dynamic characteristics of airborne-towed vehicles at short cable lengths, 1964 August

   itemnumber: Report no. 701
   Creator: Law, E.H.

A critical examination of the fluid dynamic problem posed by the laminar jet diffusion flame, 1964 July

   itemnumber: Report no. 702
   Creator: Cheng, Sin-i; Goldburg, Arnold

Additional studies of the effects of deformation on the aerodynamic characteristics of a sailwing, 1964 August

   itemnumber: Report no. 704
   Creator: Ormiston, Robert A.; Sweeney, Thomas E.

Interactions between a partly-ionized laminar subsonic jet and a cool stagnant gas, 1964 September

   itemnumber: Report no. 707
   Creator: Grey, J.; Sherman, Martin P.

The gas phase decomposition of hydrazine propellants, 1964

   itemnumber: Report no. 708
   Creator: Eberstein, I.J.; Glassman, Irvin

Mixing and heat transfer of an argon arcjet with a coaxial flow of cold helium, 1964 October 31

   itemnumber: Report no. 710
   Creator: Fradkin, David B.; Grey, J.; Williams, Peter M.

Markov chain theory of free-molecule flow, 1964 December

   itemnumber: Report no. 711
   Creator: Wu, Yau

Princeton dynamic model track tests of a sikorsky vtol aircraft design, 1964 December 1

   itemnumber: Report no. 712
   Creator: Curtiss, Howard C.; Traybar, Joseph J.

A curriculum in engineering science directed toward astronautics, 1964 December 1

   itemnumber: Report no. 713
   Creator: Summerfield, Martin
Mass injection in a hypersonic cavity flow, 1964 December
  itemnumber: Report no. 714
  Creator: Nicoll, K.M.

On a new ultra-high vacuum pump, 1964 December
  itemnumber: Report no. 715
  Creator: Wu, Yau

A uniformly valid asymptotic theory of rarefied gas flows under nearly free-molecule conditions, 1965 January
  itemnumber: Report no. 716
  Creator: Pao, Y.P.

An analysis of a ramjet propelled recoverable launch vehicle stage, 1964 June 3
  itemnumber: Report no. 717a
  Creator: Layton, J.P.

Calculus of variations computation of two dimensional heliocentric circular orbit transfers, 1965 January 29
  itemnumber: Report no. 717c-1

Optimal free-space fixed-thrust trajectories using impulsive trajectories as starting iteratives, 1966 March 31
  itemnumber: Report no. 717e-1
  Creator: Handelsman, M.; Layton, J.P.

The meaning of a heat flow experiment on Mars, 1966 April 15
  itemnumber: Report no. 717
  Creator: Hanks, Thomas C.

TRSYS- a trajectory and mission analysis system program, 1966 June 7
  itemnumber: Report no. 717i
  Creator: Armstrong, Thomas R.; Layton, J.P.

Performance analysis of the solid core nuclear rocket 1975-1985, 1966 December 30
  itemnumber: Report no. 717k
  Creator: Flynn, Michael J.; Layton, J.P.

Trajectory optimization for a fixed thrust-angle, solar electric interplanetary vehicle, 1967 May 29
itemnumber: Report no. 717n
Creator: Phillips, Roger A.
Reactor optimization in a solid core nuclear rocket system, 1967 July 15

itemnumber: Report no. 717o
Creator: Flynn, Michael J.; Grey, J.; Layton, J.P.
A digital/hybrid computer program for the computation of optimal interplanetary trajectories, 1967 August

itemnumber: Report no. 717q
Creator: Shanno, David F.; Vichnevetsky, R.
Trajectory optimization program for comparing advanced technologies, 1968 March 1

itemnumber: Report no. 717s
Creator: Campbell, J.H.; Lion, Paul M.; Shulzycki, A.B.
Propulsion technology for manned planetary missions, 1968 March 3

itemnumber: Report no. 717t
Creator: Layton, J.P.; Lion, Paul M.
A primer on a primer, 1968 April 15

itemnumber: Report no. 717v
Creator: Lion, Paul M.
Sufficient conditions for optimal fixed time impulsive trajectories, 1968 April 15

itemnumber: Report no. 717w
Creator: Lion, Paul M.
System analysis of nuclear rocket engine, 1968 April 6

itemnumber: Report no. 717y
Creator: Kalmbach, C.F.; Lion, Paul M.; Mintz, M.D.; Vichnevetsky, R.
NUROC/SAC- a computer code for the analysis of nuclear rocket engine systems, 1969 June 1

itemnumber: Report no. 717ae
Creator: Layton, J.P.; Mintz, M.D.; Vichnevetsky, R.
Theories of thermal transpiration and molecular effusion, 1965 February

itemnumber: Report no. 718
Creator: Wu, Yau
A transistorized constant temperature hot-wire anemometer and linearizing circuit, 1967 January

itemnumber: Report no. 722
Creator: Verhoff, A.

Aerodynamic drag and heat transfer for flow past two-dimensional bodies at high knudsen numbers, 1965 April

itemnumber: Report no. 726
Creator: Taub, P.; Willis, D. Roger

Lateral-directional flying qualities for power approach, 1966 September

itemnumber: Report no. 727
Creator: G.E. Miller; Nixon, W.B.; Seckel, E.

Hypersonic studies of wakes behind cylinders, 1965 June

itemnumber: Report no. 739
Creator: Bogonoff, Seymour; Ledger, J.D.; Vas, I.E.

The design and development of rogowski coil probes for measurement of current density distribution in a plasma pinch, 1965 June

itemnumber: Report no. 740
Creator: Jahn, R.G.; Jaskowsky, Woldemar F. von; Wright, Edward S.

An investigation of the application of feedback and comparator concepts to sensitive semiconductor instruments, 1965 May

itemnumber: Report no. 741
Creator: Born, Geradus J.; Durbin, Enoch; Takashima, Kazuaki

Investigation of the lateral/directional stability characteristics of a four-propeller tilt-wing vtol model, 1968 September

itemnumber: Report no. 743
Creator: Boyden, Richmond P.; Curtiss, Howard C.

Some physical considerations of the hydrodynamic stability of parallel flows of a dusty gas, 1965 July

itemnumber: Report no. 745
Creator: Liu, J.T.C.

Theory of thermal conductance in a collisionless gas, 1965 June

itemnumber: Report no. 746
Creator: Wu, Yau

Theory of knudsen's absolute manometer, 1965 September
itemnumber: Report no. 747
Creator: Wu, Yau
Comparison of longitudinal stability characteristics of three tilt-wing vtol aircraft designs, 1968 September

itemnumber: Report no. 749
Creator: Curnutt, R.A.; Curtiss, Howard C.
Solid propellant combustion instability oscillatory burning of solid rocket propellants, 1965 August

itemnumber: Report no. 751
Creator: Summerfield, Martin; Waesche, R.H.W.
Ignition of an evaporating fuel in a hot oxidizing gas, including the effect of heat feedback, 1966

itemnumber: Report no. 752
Creator: Hermance, C.E.; Shinnar, R.; Summerfield, Martin
The effect of wall temperature on stagnation region heat transfer and shock detachment distance in hypersonic incipient merged layer flow, 1965 August

itemnumber: Report no. 753
Creator: Liu, J.T.C.
Preliminary studies of the flow around two-dimensional bodies at high mach numbers and low reynolds numbers, 1965 August

itemnumber: Report no. 754
Creator: Bogonoff, Seymour; Vas, I.E.
On hypersonic viscous flow near a sharp leading edge, 1965 September

itemnumber: Report no. 755
Creator: Garvine, R.W.
An analytical study of various factors influencing the longitudinal stability derivatives of a typical tilt-wing vtol aircraft, 1965 September

itemnumber: Report no. 756
Creator: Beppu, Goro; Curtiss, Howard C.
A preliminary investigation of a solid propellant gas generator supplying a leading edge blowing slot for flow reattachment, 1965 October

itemnumber: Report no. 758
Creator: Lehnert, R.F.
Thermal conductances in a collisionless gas between coaxial cylinders and concentric spheres, 1965 November
   itemnumber: Report no. 759
   Creator: Wu, Yau

Pre-ignition and ignition processes of metals, 1965 November 1
   itemnumber: Report no. 760
   Creator: Glassman, Irvin; Hansel, James G.; Mellor, Arthur M.

The homogenous gas phase kinetics of reactions in the hydrazine-nitrogen tetroxide propellant system, 1965
   itemnumber: Report no. 761
   Creator: Glassman, Irvin; Sawyer, Robert F.

Electron-heavy particle nonequilibrium in a dense argon plasma, 1966 July
   itemnumber: Report no. 763
   Creator: Grey, J.; Jacobs, Paul, 1918- -- Correspondence.

On shock tube side wall Langmuir probes, 1966 January
   itemnumber: Report no. 764
   Creator: Liu, J.T.C.

Moment approximation to the Boltzmann equation for a degenerate electron gas, 1966 January
   itemnumber: Report no. 765
   Creator: Isom, Morris P.

Research on solid propellant combustion instability, 1966 February
   itemnumber: Report no. 766
   Creator: Summerfield, Martin; Waesche, R.H.W.

The leading edge effect on the flow over a flat plate at m=10, 1966 February
   itemnumber: Report no. 767
   Creator: Townsend, J.C.; Vas, I.E.; Vollmar, W.R.

Kinetic theory of molecular radiometric force and radiometer, 1966 January
   itemnumber: Report no. 768
   Creator: Wu, Yau

The ignition transient in solid propellant rocket motors, 1966 February 10
   itemnumber: Report no. 769
   Creator: Most, Williams J.; Parker, Kim H.; Summerfield, Martin
Progress report of research on solid propellant ignition, 1966 March
  itemnumber: Report no. 770

An experimental model for the sharp leading edge problem in rarefied hypersonic flow, 1966 March
  itemnumber: Report no. 771
  Creator: McCroskey, W.J.

Non-steady combustion of solid propellants with special reference to rocket instability, 1966 March
  itemnumber: Report no. 773
  Creator: Di Lauro, Gerald; Krier, Herman; Kurylko, L.; Summerfield, Martin

An experimental investigation of the longitudinal dynamic stability characteristics of a four-propeller tilt-wing vtol model, 1968 February
  itemnumber: Report no. 774
  Creator: Curtiss, Howard C.; Lebacqz, J.V.; Putnam, William F.

Turbulent boundary layers with arbitrary pressure gradients and divergent or convergent cross flows, 1966 March
  itemnumber: Report no. 775
  Creator: Mellor, G.L.

A general analysis of a high frequency non-linear oscillator, 1966 April
  itemnumber: Report no. 776
  Creator: Lam, S.H.

Pre-ignition and ignition processes of metals (Part I), 1966 May 1
  itemnumber: Report no. 781
  Creator: Glassman, Irvin; Hansel, James G.; Mellor, Arthur M.

Pre-ignition and ignition processes of metals (Part II), 1966 August 1
  itemnumber: Report no. 782
  Creator: Glassman, Irvin; Hansel, James G.; Mellor, Arthur M.

Pre-ignition and ignition processes of metals (Part III), 1966 November 1
  itemnumber: Report no. 786
  Creator: Hansel, James G.; Mellor, Arthur M.

Capacitive pressure transducer system, 1967 July
itemnumber: Report no. 788
Creator: Born, Geradus J.; Durbin, Enoch; Quinn, Robert S.
A critical analysis of arc image ignition of solid propellants, 1967 July

itemnumber: Report no. 789
Creator: Ohlemiller, T.J.; Summerfield, Martin
Behavior of supercritical nozzles under three dimensional oscillatory conditions, 1967 April 1

itemnumber: Report no. 790
Creator: Crocco, Luigi; Sirignano
Augmented ignition efficiency for aluminum and beryllium, 1967 May

itemnumber: Report no. 791
Creator: Glassman, Irvin; Mellor, Arthur M.
Non-steady burning phenomena of solid propellants theory and experiment, 1967 July

itemnumber: Report no. 793
Creator: Krier, Herman; Sirignano; Summerfield, Martin; T’ien, J.S.
Axial mode shock wave combustion instability in liquid propellant rocket engines, 1968 June 26

itemnumber: Report no. 798
Creator: Crocco, Luigi; Mitchell, C.E.; Sirignano
Radiation augmented burning of a solid propellant, 1967 November

itemnumber: Report no. 799
Creator: Ohlemiller, T.J.; Summerfield, Martin
Experimental investigations of liquid propellant combustion processes using streak photography, 1970 February 26

itemnumber: Report no. 800
Creator: Crocco, Luigi; Harrje, D.T.; Williams Jr., Richard M.
The ignition transient in small solid propellant rocket motors of practical configurations, 1967 July

itemnumber: Report no. 801
Creator: Lukenas, L.A.; Most, Williams J.; Stang, P.L.; Summerfield, Martin
Theoretically predicted ignition transients in solid propellant rocket motors, 1968 October 9

itemnumber: Report no. 802
Creator: Di Lauro, Gerald; Linden, L.H.; Most, Williams J.; Summerfield, Martin
Asymptotic theory of a spherical electrostatic probe in a stationary weakly ionized plasma, 1967 August
   itemnumber: Report no. 804
Creator: Bienkowski, M.A.; Chang, Kuo-Wei
Experimental studies of a laminar hypersonic cone wake, 1967 November
   itemnumber: Report no. 806
Creator: Murman, Earll M.
Aerodynamic characteristic of a general tilt-wing/propeller model tested at slow speeds and high angles of attack, 1968 February
   itemnumber: Report no. 807
Creator: Traybar, Joseph J.
A preliminary investigation of the use of lift control in maneuvering flight, 1967 June
   itemnumber: Report no. 808
Creator: Klein, Donald G.
Effects of igniter and motor characteristics on the ignition transient of a solid rocket engine: computer predictions and test firings, 1967 October
   itemnumber: Report no. 809
Creator: Di Lauro, Gerald; Linden, L.H.; Lukenas, L.A.; MacDonald, B.W.; Most, Williams J.; Stang, P.L.; Summerfield, Martin
Effects of oxidizer particle size on composite solid propellant burning: normal burning, plateau burning and intermediate pressure extinction, 1967 October
   itemnumber: Report no. 810
Creator: Summerfield, Martin
Metal flame structure studies employing optical techniques, 1967
   itemnumber: Report no. 815
Creator: Glassman, Irvin; Gouldin, F.C.; Sullivan, H.F.
Heterogeneous ignition of metals: model and experiment, 1967
   itemnumber: Report no. 816
Creator: Glassman, Irvin; Mellor, Arthur M.
Aide-memoire for conference on mechanism of coupling of combustion with gas dynamic flow fields, 1968 January 17
   itemnumber: Report no. 817
Creator: Krier, Herman; Parker, Kim H.; Sirignano; Strahle, W.C.; Summerfield, Martin

Outline of the princeton research program in the dynamics of the car-driver combination, 1966 October

itemnumber: Report no. 821
Creator: Heitzman, Ed

Program plan for research in dynamics of the car-driver system, 1966 November

itemnumber: Report no. 822
Creator: Heitzman, Ed

Computer programs of the lifting wind sensor project, 1968 March

itemnumber: Report no. 827
Creator: Stengel, Robert F.

The sailwing lifting body concept, 1968 February

itemnumber: Report no. 828
Creator: Fox, Robert D.; Ormiston, Robert A.

The burning mechanism of ammonium perchlorate-based composite solid propellants, 1969 February

itemnumber: Report no. 830
Creator: Stang, P.L.; Steinz, J.A.; Summerfield, Martin

Flight evaluation of the effect of approach speed on pilot performance, 1969 April

itemnumber: Report no. 831
Creator: G.E. Miller; Seckel, E.

Flexural arch vibrations, 1968 June

itemnumber: Report no. 833
Creator: van Gulick, L.A.

An investigation of the dynamic stability characteristics of a quad configuration, ducted propeller v/stol model, 1968 December 1

itemnumber: Report no. 835
Creator: Curtiss, Howard C.; Kukon, John P.; Putnam, William F.; Traybar, Joseph J.

An investigation of the dynamic stability characteristics of a quad configuration, ducted-propeller v/stol model, 1968 August

itemnumber: Report no. 836
Creator: Curtiss, Howard C.; Kukon, John P.; Putnam, William F.; Traybar, Joseph J.

Thrust transient prediction and control of solid rocket engines, 1968 June
itemnumber: Report no. 837

Creator: MacDonald, B.W.; Most, Williams J.; Stang, P.L.; Summerfield, Martin

Extinguishment of solid propellant flames: a theory based on a new feedback law, 1968 June
itemnumber: Report no. 838

Creator: Merkle, C.L.; Summerfield, Martin

Request for quotation on variable configuration quad model, 1969 October 15
itemnumber: Report no. 839

Creator: Curtiss, Howard C.; Putnam, William F.

Role of aluminum in suppressing instability in solid propellant rocket motors, 1968 July
itemnumber: Report no. 840

Creator: Krier, Herman; Summerfield, Martin

Some thoughts and experiments on liquid fuel flame spreading, steady burning and ignitability in quiescent atmospheres, 1968 July
itemnumber: Report no. 841

Creator: Glassman, Irvin; Hansel, James G.

Cost-benefit analysis of tire recall campaigns, 1968 June
itemnumber: Report no. 842

Creator: Keenen, Lee T.

Aerospace systems and mission analysis research: solar electric space mission analysis, 1969 January 15
itemnumber: Report no. 843

Creator: Handelsman, M.; Layton, J.P.; Lion, Paul M.

Nonlinear analysis of the flutter of an infinitely long plate, 1968 August
itemnumber: Report no. 845

Creator: Swan, William

An investigation of the dynamic stability characteristics of a quad configuration, ducted-propeller v/stol model, 1968 November
itemnumber: Report no. 847
Creator: Curtiss, Howard C.; Kukon, John P.; Putnam, William F.; Traybar, Joseph J.

The longitudinal stability characteristics of a quad configuration, ducted-propeller v/stol model at high duct incidence, 1969 October
  itemnumber: Report no. 848
  Creator: Curtiss, Howard C.

The propagation of waves in composite elastic rods and viscoelastic rods, 1968 October
  itemnumber: Report no. 849
  Creator: Lai, Jai-Lue

The ignition characteristics of metals in oxygen atmospheres, 1968 October
  itemnumber: Report no. 851
  Creator: Glassman, Irvin; Laurendeau, Normand M.

Automobile roll mode characteristics, 1968 January
  itemnumber: Report no. 854
  Creator: Winsor, F.J.

An investigation of the lateral/directional dynamic stability characteristics of a tilt-wing v/stol transport model in simulated low-speed descending flight, 1969 July
  itemnumber: Report no. 862
  Creator: Putnam, William F.

Combustion processes in liquid propellant rocket motors, 1969 March 15
  itemnumber: Report no. 863
  Creator: Glassman, Irvin

Molecular beam studies of inelastic neutral particle cross sections, 1969 April 1
  itemnumber: Report no. 867a
  Creator: Kelly, Arnold J.

Molecular beam studies of inelastic neutral particle cross sections, 1971 March
  itemnumber: Report no. 867h
  Creator: Kelly, Arnold J.

Molecular beam studies of inelastic neutral particle cross sections, 1972 June
  itemnumber: Report no. 867m
  Creator: Kelly, Arnold J.

Flying qualities of small general aviation airplanes, 1969 June
itemnumber: Report no. 870
Creator: Ellis, D.R.; Seckel, E.
Flame spreading in quiescent atmospheres, 1969 June

itemnumber: Report no. 871
Creator: Glassman, Irvin
Starting thrust transients of solid rocket engines, 1969 July

itemnumber: Report no. 873
Creator: Most, Williams J.; Summerfield, Martin
Tracking performance of driver-vehicle systems with gust inputs, 1969 August

itemnumber: Report no. 875
Creator: Winsor, F.J.
Analysis and comparison of aerodynamic data obtained in a large wind tunnel and a moving-model/track facility for a general research tilt-wing/propeller vtol configuration, 1969 September

itemnumber: Report no. 872
Creator: Traybar, Joseph J.
The combustion of the alkaline earth metals in carbon dioxide, 1969

itemnumber: Report no. 879
Creator: Clarke Brown, Robert
Extinguishment of solid propellants by rapid depressurization (Part I), 1969 July

itemnumber: Report no. 880
Creator: Merkle, C.L.; Summerfield, Martin; Turk, S.L.
Extinguishment of solid propellants by rapid depressurization (Part II), 1970 January

itemnumber: Report no. 880-S
Creator: Merkle, C.L.; Summerfield, Martin; Turk, S.L.

Flight evaluation of the effects of short period frequency and normal acceleration response in carrier approach, 1969 November

itemnumber: Report no. 882
Creator: G.E. Miller; Seckel, E.
An experimental investigation of ground effect on a four-propeller tilt-wing v/stol model, 1968 July

itemnumber: Report no. 892
Creator: Putnam, William F.
A feasibility study of command control of solid propellant burning rate, 1970 February
  itemnumber: Report no. 893
Creator: Caveny, L.H.; Summerfield, Martin
Research on non-steady burning of solid propellants with special reference to combustion instability, 1968 September
  itemnumber: Report no. 894
Creator: Summerfield, Martin
Approximate factors for automobile gust input numerators, 1969 August
  itemnumber: Report no. 895
Creator: Winsor, F.J.
Flying qualities of small general aviation airplanes, 1970 April
  itemnumber: Report no. 896
Creator: Ellis, D.R.
The aerodynamic characteristics and performance of an unmanned sailboat as determined from wind tunnel tests, 1970 March
  itemnumber: Report no. 899
Creator: Curtiss, Howard C.; DeHoff, R.L.; Henricks, R.L.; Quinn, D.F.
Combustion instability research at Princeton University, 1970 February
  itemnumber: Report no. 903
An experimental investigation to improve a jet mass augmenter by means of a rotating input, 1970 November
  itemnumber: Report no. 911
Creator: Kaufman, Kenneth
A study of turbulent boundary layer models, 1970 May
  itemnumber: Report no. 914
Creator: Herring, H. James; Mellor, G.L.
Asymptotic theory of the structure of normal shock waves in binary gas mixtures, 1970 June
  itemnumber: Report no. 915
Creator: Bienkowski, George K.; Harris Sr., Wesley L.
Analytical methods of trajectory analysis research, 1967 April 21
  itemnumber: Report no. 916a-h
Creator: Lion, Paul M.
A experimental investigation of panel divergence at subsonic speeds, 1970 July
  itemnumber: Report no. 921
Creator: Gislason Jr., Thorsteinn
Full scale wind tunnel tests of a low-wing, single-engine, light plane with positive and negative propeller thrust and up and down flap deflection, 1970 October
  itemnumber: Report no. 922
Creator: Morris, James J.; Seckel, E.
The stability derivatives of the navion aircraft estimated by various methods and derived from flight test data, 1971 January
  itemnumber: Report no. 923
Creator: Morris, James J.; Seckel, E.
An experimental investigation of sound transmission through a flexible panel into a closed cavity, 1970 July
  itemnumber: Report no. 925
Creator: Gorman III, George F.
Flame spreading across liquid fuels at sub-flash point temperatures: measurements and techniques (the fuel surface tension, vapor pressure, flash point, viscosity and flame spread rate), 1970 July
  itemnumber: Report no. 926
Creator: Glassman, Irvin; Hansel, James G.; MacKiven, R.
Feedback control of vtol aircraft, 1970 April
  itemnumber: Report no. 929
Creator: Dukes, Theodor
Propagation of waves in heterogeneous materials, 1970 August 31
  itemnumber: Report no. 931
Creator: Tauchert, T.R.
A cathode region of a quasi-steady magnetoplasmadynamic arcjet, 1970 October
  itemnumber: Report no. 940
Creator: Jahn, R.G. ; Turchi, P.J.
Combustion anomalies in stop-restart firing of hybrid rocket engines, 1970 September
   itemnumber: Report no. 945
   Creator: Caveny, L.H.; Saraniero, M.A.; Summerfield, Martin

A non-isothermal theory of an electrostatic probe in a weakly ionized gas, 1972 April
   itemnumber: Report no. 946
   Creator: Jou, Wei-Huei

Flying qualities of small general aviation airplanes (Part I), 1971 December
   itemnumber: Report no. 949
   Creator: Ellis, D.R.

Flying qualities of small general aviation airplanes (Part II), 1971 December
   itemnumber: Report no. 950
   Creator: Ellis, D.R.

The theory of multipoles in classical electromagnetism, 1970 October
   itemnumber: Report no. 951
   Creator: Kadafar, C.B.

Physics of flames, 1970 September
   itemnumber: Report no. 952
   Creator: Glassman, Irvin; Sirignano; Summerfield, Martin

Wave propagation in nematic liquid crystals, 1970 September
   itemnumber: Report no. 955
   Creator: Lee, J.D.

Theory of thermomicrofluids, 1972 May
   itemnumber: Report no. 956
   Creator: Eringen, A.C.

Boundary effects on orientation of nematic liquid crystals, 1970 October
   itemnumber: Report no. 957
   Creator: Eringen, A.C.; Lee, J.D.

Alignment of nematic liquid crystals, 1970 October
   itemnumber: Report no. 958
   Creator: Eringen, A.C.; Lee, J.D.
Anode phenomena in high-current discharges, 1970 December
  itemnumber: Report no. 961
  Creator: Jahn, R.G.; Oberth, R.C.

Fluid mechanics approach to acoustic liner design, 1970 December
  itemnumber: Report no. 963
  Creator: Harrje, D.T.; Sirignano; Tonon, T.S.

An experimental investigation of compound helicopter aerodynamics in level and descending forward flight and in ground proximity, 1971 July
  itemnumber: Report no. 971
  Creator: Putnam, William F.; Traybar, Joseph J.

1970 Summary of combustion instability research at Princeton University, 1971 February
  itemnumber: Report no. 972
  Creator: Bracco, F.V.; Crocco, Luigi; Harrje, D.T.; Lorenzetto, J.; Narayanan, S.N.; Rosfjord, T.J.; Sirignano; Tang, P.K.; Tonon, T.S.; Varma, A.K.

Vibrations of current carrying plates, 1971 March
  itemnumber: Report no. 974
  Creator: Moon, F.C.

Deformable magnetically saturated media, 1971 August
  itemnumber: Report no. 975i
  Creator: Eringen, A.C.; Maugin, Gerard A.

Anisotropic ultrasonic wave propagation in a nematic liquid crystal placed in a magnetic field, 1970 October
  itemnumber: Report no. 976
  Creator: Lee, J.D.; Lieberman, Ernest D.; Moon, F.C.

Technical appraisal of the VKI/AGARD short course on assessment of lift-augmentation devices, 1971 February
  itemnumber: Report no. 977
  Creator: Williams, John

Critical factors in performance comparisons and technical assessments, 1971 May
  itemnumber: Report no. 981
  Creator: Williams, John
Theoretical investigation on transverse mode combustion instability for liquid propellant rockets, 1974 October 7
   itemnumber: Report no. 987
   Creator: Crocco, Luigi; Lorenzetto, J.

The large reynolds number, asymptotic theory of turbulent boundary layers, 1971 October
   itemnumber: Report no. 989
   Creator: Mellor, G.L.

Propagation of elastic waves in periodic fiber composite materials, 1971 May
   itemnumber: Report no. 990
   Creator: Moon, F.C.; Wu, Tiao-Ming

A preliminary hot-wire investigation of cone-wake transition at $m=16$, 1971 June
   itemnumber: Report no. 992
   Creator: Bogonoff, Seymour; Hama, Francis R.

A method of interpretation of surface pressure measurements under rarefied hypersonic conditions, 1971
   itemnumber: Report no. 993
   Creator: Bienkowski, George K.; Harbour, Peter J.

Reliability model of a monopropellant auxiliary propulsion system, 1971 June 25
   itemnumber: Report no. 997
   Creator: Greenberg, Joel S.; Layton, J.P.

Mass, momentum, and energy flow from an mpd accelerator, 1971 September
   itemnumber: Report no. 999
   Creator: Cory, John S.; Jahn, R.G.

Combustion of barium, 1971 August
   itemnumber: Report no. 1004
   Creator: Glassman, Irvin

Nuclear propulsion systems and mission analysis research, 1971 October 31
   itemnumber: Report no. 1005
   Creator: Cuspard, S.F.; Layton, J.P.; Mintz, M.D.; Morrison, D.J.; Silverman, M.B.; Vichnevetsky, R.

Random excitation of a panel-cavity system, 1971 July
   itemnumber: Report no. 1009
Creator: Gorman III, George F.

Nuclear propulsion systems and mission analysis research: nuclear rocket engine performance analysis using mission related sensitivity functions, 1971 October

itemnumber: Report no. 1012

Creator: Layton, J.P.; Morrison, D.J.; Vichnevetsky, R.

Micro-rocket impulsive thrusters, 1971 November

itemnumber: Report no. 1014

Creator: Caveny, L.H.; Summerfield, Martin

Energy deposition in parallel-plate plasma accelerators, 1971 December

itemnumber: Report no. 1015

Creator: Di Capua, M.S.; Jahn, R.G.

Experiments on the behavior of an axisymmetric turbulent boundary layer with a sudden circumferential strain, 1971 October

itemnumber: Report no. 1016

Creator: Bissonnette, Luc R.; Mellor, G.L.

A brief survey on metal fatigue, 1971 November

itemnumber: Report no. 1018

Creator: Eringen, A.C.; Kim, Byoung Sung

Hollow cathode, quasi-steady mpd arc, 1971 December

itemnumber: Report no. 1023

Creator: Jahn, R.G.; Parmentier, Noel

The buckling of a dielectric fiber in an electric field, 1971 November

itemnumber: Report no. 1029

Creator: Moon, F.C.

High temperature oxidation of carbon monoxide and methane in a turbulent flow reactor, 1972 March

itemnumber: Report no. 1034

Creator: Dryer, Frederick L.

Recent experimental and theoretical progress on the vibrations of elastic structures in magnetic fields, 1972 March

itemnumber: Report no. 1035

Creator: Moon, F.C.
Elastic control on an elastic body, 1972 April
  itemnumber: Report no. 1036
  Creator: Kalmbach, C.F.

Motion of electron gas in conducting solids, 1972 April
  itemnumber: Report no. 1037
  Creator: Demiray, H.; Eringen, A.C.

Erosion of graphite surface exposed to hot supersonic hydrogen gas, 1972 April
  itemnumber: Report no. 1038
  Creator: Sharma, Om P.

Experimental study of the flutter of a flexible cylinder due to a rotating, swirling flow, 1972 April
  itemnumber: Report no. 1039

Experimental study of the flutter of a flexible cylinder due to a rotating, swirling flow, 1973 November
  itemnumber: Report no. 1039
  Creator: Dowell, E.H.; McLean, J.D.

Spectroscopic studies of the exhaust plume of a quasi-steady mpd accelerator, 1972 May
  itemnumber: Report no. 1041
  Creator: Bruckner, A.P.; Jahn, R.G.

The swirling flow in an annulus, 1972 October
  itemnumber: Report no. 1044
  Creator: Ambrose, J.G.

Stress wave calculations in composite plates using the fast fourier transform, 1972 March
  itemnumber: Report no. 1046
  Creator: Moon, F.C.

Theoretical analysis of impact composite plates, 1971 September
  itemnumber: Report no. 1048
  Creator: Moon, F.C.

Non-steady combustion of solid propellants, 1972 October
  itemnumber: Report no. 1049
Creator: Battista, R.A.
Nuclear propulsion systems and mission analysis research: an approach to reliability, uncertainty, and risk assessment of space systems, 1972 June 6
itemnumber: Report no. 1051
Creator: Greenberg, Joel S.; Layton, J.P.
An experimental-theoretical study of free vibrations of plates on elastic point supports, 1972 July
itemnumber: Report no. 1052
Creator: Leuner, Thomas R.
Nuclear propulsion systems and mission analysis research (Part I), 1972 June 30
itemnumber: Report no. 1057
Creator: Grey, J.; Layton, J.P.
Nuclear propulsion systems and mission analysis research (Part II), 1972 May
itemnumber: Report no. 1059
Creator: Graf, James E.; Layton, J.P.
Nuclear propulsion systems and mission analysis research (Part III), 1972 December 28
itemnumber: Report no. 1060
Creator: Greenberg, Joel S.; Hazelrigg Jr., George A.; Layton, J.P.
The application of feedback control to the suppression of a dynamic instability of an elastic body, 1972 August
itemnumber: Report no. 1061
Creator: Dowell, E.H.; Kalmbach, C.F.; Moon, F.C.
Transient panel motion in a shear flow, 1972 August
itemnumber: Report no. 1062
Creator: Ventres, C.S.
Finite difference treatment of strong shock over a sharp leading edge with navier-stokes equations, 1973 April 10
itemnumber: Report no. 1064
Creator: Chen, J.H.; Cheng, Sin-i
Quasi-steady state thruster system studies, 1972 August
itemnumber: Report no. 1067a
Creator: Kelly, Arnold J.
Plasma propulsion systems, 1972 September
  itemnumber: Report no. 1074
  Creator: Clark, Kenn E.; Kelly, Arnold J.

Chemical laser action in low pressure metal vapor flames, 1972 October
  itemnumber: Report no. 1076
  Creator: Glassman, Irvin; Naegeli, D.W.; Zwillenberg, M.L.

Nuclear propulsion systems and mission analysis research, 1972 December 27
  itemnumber: Report no. 1085
  Creator: Greenberg, Joel S.; Layton, J.P.

The princeton windmill program, 1973 March
  itemnumber: Report no. 1093
  Creator: Sweeney, Thomas E.

An experimental investigation of laminar heat transfer to cones at hypersonic speeds, 1972 November
  itemnumber: Report no. 1098
  Creator: Berry, Carl T.; Bogonoff, Seymour; Vas, I.E.

Theoretical analysis of impact in composite plates, 1973 June 13
  itemnumber: Report no. 1099
  Creator: Moon, F.C.

The starting transient of solid-propellant rocket motors with high internal gas velocities, 1973 April
  itemnumber: Report no. 1100
  Creator: Caveny, L.H.; Kuo, K.K.; Peretz, A.; Summerfield, Martin

A critical survey of wave propagation and impact in composite materials, 1973 May
  itemnumber: Report no. 1103
  Creator: Moon, F.C.

An introduction to the Princeton sailwing windmill, 1973 June
  itemnumber: Report no. 1106
  Creator: Nixon, W.B.; Sweeney, Thomas E.

Mechanics of structures with high electric currents, 1973 July
  itemnumber: Report no. 1111
  Creator: Moon, F.C.
Continuum theory of cholesteric liquid crystals, 1973 August
  itemnumber: Report no. 1113
  Creator: Eringen, A.C.; Lee, J.D.

Relations of continuum theories of liquid crystals, 1973 August
  itemnumber: Report no. 1114
  Creator: Eringen, A.C.; Lee, J.D.

Large amplitude flutter of a low aspect ratio panel at low supersonic speeds comparison of theory and experiment, 1973 August
  itemnumber: Report no. 1116
  Creator: Kang, C.K.; Ventres, C.S.

Orientational effects in heat-conducting nematic liquid crystals, 1973 August
  itemnumber: Report no. 1117
  Creator: Eringen, A.C.; Narasimhan, M.N.L.

Certain fluid mechanical aspects of pan burning of liquid fuel, 1979 January
  itemnumber: Report no. 1122
  Creator: Meyer, Williams L.

Finite-difference solution of the laminar supersonic near wake- a posteriori error study and physical discussion, 1974 October
  itemnumber: Report no. 1125
  Creator: Cheng, Sin-i; Ross, Bruce B.

The effect of ground proximity on the lateral-directional aerodynamic and control characteristics of a tilt-wing v/stol aircraft at high lift coefficients, 1974 November
  itemnumber: Report no. 1127
  Creator: Curtiss, Howard C.; Putnam, William F.; Traybar, Joseph J.

Advanced technology wind machines, 1973 September
  itemnumber: Report no. 1129
  Creator: Nixon, W.B.; Sweeney, Thomas E.

On the constitutive equations of polar elastic dielectrics, 1973 October
  itemnumber: Report no. 1132
  Creator: Demiray, H.; Eringen, A.C.

Free vibrations of a plate with varying number of supports, 1973 November
  itemnumber: Report no. 1133
  Creator: Dowell, E.H.; Drake, J.; Kang, C.K.
Theory of combustion noise, 1973 July
  itemnumber: Report no. 1136
  Creator: Chiu, H.H.; Summerfield, Martin
Flame spreading across liquid fuels, 1973 November
  itemnumber: Report no. 1140
  Creator: Dryer, Frederick L.; Glassman, Irvin; Helmstetter, A.; Herring, H. James; Sirignano
Analysis of edge impact stresses in composite plates, 1974 May
  itemnumber: Report no. 1141
  Creator: Kang, C.K.; Moon, F.C.
Flutter of loaded plates with aerodynamic boundary layer effects, 1974 January
  itemnumber: Report no. 1142
  Creator: Dowell, E.H.
Chemical laser action in low pressure metal vapor flames, 1973 December
  itemnumber: Report no. 1143
  Creator: Glassman, Irvin; Naegeli, D.W.; Zwillenberg, M.L.
Control system design with optimal weighting matrices (OWEM), 1974 January
  itemnumber: Report no. 1145
  Creator: Born, Geradus J.; Kawahata, Nagakatsu
A two-dimensional lattice model for composites reinforced with orthogonal fibers, 1975 May
  itemnumber: Report no. 1147
  Creator: Demiray, H.; Eringen, A.C.; Narasimhan, M.N.L.
Ignition dynamics of double base propellants, 1974 January
  itemnumber: Report no. 1150
  Creator: Caveny, L.H.; DeLuca, L.; Ohlemiller, T.J.; Summerfield, Martin
An experimental investigation of the effect of a fuselage on wing characteristics, 1975 January
  itemnumber: Report no. 1151
  Creator: Yoshino, Fumio
  itemnumber: Report no. 1152
Creator: Caveny, L.H.; Cook, A.F.; Summerfield, Martin
Economics of standardized nuclear powered spacecraft, 1974 February 1
  itemnumber: Report no. 1155
Creator: Greenberg, Joel S.; Layton, J.P.; Smith, Donald E.
A critical review of the numerical solution of navier-stokes equations, 1974 February
  itemnumber: Report no. 1158
Creator: Cheng, Sin-i
Some problems in the design and utilization of wind machines, 1974 April
  itemnumber: Report no. 1162
Creator: Nixon, W.B.
Combustion contribution to noise in jet engines, 1976 July
  itemnumber: Report no. 1164
Creator: Abdelhamid, A.N.; Harrje, D.T.; Plett, E.G.; Summerfield, Martin
Annual progress report on nuclear fusion systems analysis research, 1974 July 31
  itemnumber: Report no. 1174
Creator: Layton, J.P.; Weatherwax, R.K.
The landing flare: an analysis and flight-test investigation, 1975 May
  itemnumber: Report no. 1175
Creator: Seckel, E.
Aldehyde pyrolysis and oxidation, 1974 August 1
  itemnumber: Report no. 1176
Creator: Colket III, M.B.; Glassman, Irvin; Naegeli, D.W.
Summary report of the workshop on energy-related basic combustion research, 1974 August
  itemnumber: Report no. 1177
Creator: Glassman, Irvin; Sirignano
Acoustics of the piezo-electric pressure probe, 1974 August
  itemnumber: Report no. 1179
Creator: Dutt, Gautam S.; Jahn, R.G.
A preliminary windtunnel investigation of a wing tip static pressure amplification device, 1974 October
itemnumber: Report no. 1191  
Creator: Hazen, D.C.  
A variational-rayleigh-ritz modal approach for non-uniform twisted rotor blades undergoing large bending and torsional motion, 1974 November

itemnumber: Report no. 1193  
Creator: Dowell, E.H.  
An experimental study of the nonlinear stiffness of a rotor blade undergoing flap, lag and twist deformations, 1975 January

itemnumber: Report no. 1194  
Creator: Dowell, E.H. ; Traybar, Joseph J.  
Research and development technical report, 1974 July

itemnumber: Report no. 1197  
Creator: Born, Geradus J.; Dukes, Theodor; Durbin, Enoch; Sun, P.B.  
Standardized spacecraft - a methodology for decision making, 1974 December 31

itemnumber: Report no. 1199  
Creator: Greenberg, Joel S. ; Layton, J.P. ; Nichols, R.  
Progress report to atomic energy commission on vibration and stability of a set superconducting toroidal magnets, 1974 December

itemnumber: Report no. 1200  
Creator: Moon, F.C.; Swanson, C.  
Final technical report - combustion instabilitiiy in liquid propellant rocket motors, 1974 December

itemnumber: Report no. 1203  
Creator: Harrje, D.T.; Sirignano  
Optimal control theory (OWEM) applied to a helicopter in the hover and approach phase, 1975 January

itemnumber: Report no. 1205  
Creator: Born, Geradus J.; Kai, Tadao  
Final technical report - high speed hydrogen/graphite interaction, 1974 May

itemnumber: Report no. 1206  
Creator: Hamman, R.; Harrje, D.T.; Kelly, Arnold J.; Sharma, Om P.  
Fundamental combustion studies of emulsified fuels for diesel applications, 1975 January
itemnumber: Report no. 1207
Creator: Dryer, Frederick L.; Glassman, Irvin; Naegeli, D.W.
Semi-annual progress report on nuclear fusion systems analysis research, 1975 January 15

itemnumber: Report no. 1212
Creator: Layton, J.P.; Weatherwax, R.K.
Research on the analysis of nuclear spacecraft and special nuclear reactor applications, 1975 January 15

itemnumber: Report no. 1215
Creator: Greenberg, Joel S.; Layton, J.P.
A primer for structural response to random pressure fluctuations, 1975 April

itemnumber: Report no. 1220
Creator: Dowell, E.H.; Vaicaitis, R.
Combustion of hydrocarbons in an adiabatic flow reactor: some considerations and overall correlations of reaction rate, 1975 April

itemnumber: Report no. 1223
Creator: Dryer, Frederick L.; Glassman, Irvin
Fundamental concepts on the use of emulsions as fuels, 1975 April

itemnumber: Report no. 1224
Creator: Dryer, Frederick L.
An exploratory study of a three-dimensional shock wave boundary layer interaction at mach 3, 1975 May

itemnumber: Report no. 1227
Creator: Bogonoff, Seymour; Oskam, B.; Vas, I.E.
Sensitivity of hingeless rotor blade flap-lag stability in hover to analytical modelling assumptions, 1975 January

itemnumber: Report no. 1236
Creator: Curtiss, Howard C.
Vibration and stability of a set of superconducting toroidal magnets, 1975 June

itemnumber: Report no. 1237
Creator: Moon, F.C.; Swanson, C.
Mathematical model for the preliminary analysis of dual-mode space nuclear fission solid core power and propulsion systems, 1976 June 30

itemnumber: Report no. 1239a
Creator: Chow, Stanley; Grey, J.; Layton, J.P.

Computer code and users' guide for the preliminary analysis of dual-mode space nuclear fission solid core power and propulsion systems, 1976 June 30
  itemnumber: Report no. 1238b

Creator: Layton, J.P.; Nichols, R.; Smith, W.W.

Parameter study of a dual-mode space nuclear fission solid core power and propulsion systems, 1976 September 13
  itemnumber: Report no. 1239c

Creator: Layton, J.P.; Smith, W.W.

Sailwing windmill characteristics and related topics, 1975 April
  itemnumber: Report no. 1240

Creator: Blaha, R.; Maughmer, M.D.; Nixon, W.B.; Sweeney, Thomas E.

Geometric and performance characteristics of commercial cargo ships, 1975 June
  itemnumber: Report no. 1241

Creator: Sweeney, Thomas E.

The economic implications of unreliability, 1975 October 27
  itemnumber: Report no. 1247

Creator: Greenberg, Joel S.; Layton, J.P.

Elastic stability and vibration of toroidal magnets for fusion reactors, 1975 September
  itemnumber: Report no. 1248

Creator: Moon, F.C.; Swanson, C.

Wind and power data compilation, United States Virgin Islands, 1975 Fall
  itemnumber: Report no. 1249

Creator: Maughmer, M.D.

Nuclear fusion systems analysis research, 1975 December 31
  itemnumber: Report no. 1250

Creator: Layton, J.P.; Weatherwax, R.K.

Economic comparison of fusion power alternatives, 1975 October 31
  itemnumber: Report no. 1251

Creator: Greenberg, Joel S.; Layton, J.P.

The water pumping windmills of Crete, 1975 November
itemnumber: Report no. 1252
Creator: Sweeney, Thomas E.
Ignition dynamics in relation to combustion dynamics of double base propellants, 1975 November

itemnumber: Report no. 1253
Creator: Caveny, L.H.; DeLuca, L.; Ohlemiller, T.J.; Summerfield, Martin
The performance characteristics of a two-bladed sailwing windmill rotor and related topics, 1975 Fall

itemnumber: Report no. 1254
Creator: Sweeney, Thomas E.
An experimental study of the nonlinear stiffness of a rotor blade undergoing flap, lag, and twist deformations, 1975 December

itemnumber: Report no. 1257
Creator: Dowell, E.H.; Traybar, Joseph J.
Laser diagnostic instrumentation for measurements in steady combustors and internal combustion engines, 1975 May 15

itemnumber: Report no. 1258
Creator: Santavicca, D.A.
Steady incompressible variable thickness shear layer aerodynamics, 1976 January

itemnumber: Report no. 1259
Creator: Chi, M.R.
Breakup regimes of a single liquid jet, 1976 February 9

itemnumber: Report no. 1262
Creator: Reitz, Rolf D.
Final report of the review and evaluation of the work of Friedrich O. Ringleb, 1975 December

itemnumber: Report no. 1263
Creator: Hazen, D.C.
Study of three-dimensional flow fields generated by the interaction of a skewed shock wave with a turbulent boundary layer, 1975 February

itemnumber: Report no. 1264
Creator: Bogonoff, Seymour; Oskam, B.; Vas, I.E.
The effect of a center body on axial flow windmill performance, 1976 March
itemnumber: Report no. 1266
Creator: Blaha, R.
Research on the problem of efficient r&t program formulation under conditions of uncertainty and risk, 1976 April 30

itemnumber: Report no. 1268
Creator: Graham, D.; Greenberg, Joel S.; Hazelrigg, G.A.
General theory of thin wing in inviscid parallel shear flows, 1976 March

itemnumber: Report no. 1269
Creator: Williams, M.H.
Some preliminary observations on the combustion of heavy fuels and water-in-fuel emulsions, 1976 April

itemnumber: Report no. 1271
Creator: Dryer, Frederick L.; Glassman, Irvin; Rambach, G.D.
An analysis of single-engine lightplane stall accidents, 1976 May 14

itemnumber: Report no. 1274
Creator: Silver, Brent W.
Acoustoelasticity, 1976 May

itemnumber: Report no. 1280
Creator: Dowell, E.H.
An experimental study of acoustic natural modes of interconnected cavities, 1976 August

itemnumber: Report no. 1284
Creator: Smith, D.A.
Economic impact of new technology on domestic satellite communications, 1976 March 31

itemnumber: Report no. 1285a
Creator: Greenberg, Joel S.; Layton, J.P.; Nichols, R.
Economic impact of new technology on domestic satellite communications, 1976 March 31

itemnumber: Report no. 1285b
Creator: Greenberg, Joel S.; Layton, J.P.; Nichols, R.
Computational accuracy and mesh reynolds number, 1976 July

itemnumber: Report no. 1290
Creator: Cheng, Sin-i; Shubin, Gregory
Optimization and characteristics of a sailwing windmill rotor, 1976 March
  itemnumber: Report no. 1297
Creator: Maughmer, M.D.
Impact of composite plates: analysis of stresses and forces, 1976 January
  itemnumber: Report no. 1298
An experimental investigation of the flap-lag stability of a hingeless rotor with comparable levels of hub and blade stiffness in hovering flight, 1976 June
  itemnumber: Report no. 1300
Creator: Curtiss, Howard C.; Putman, W.F.
Burning rate measurement of thin sheets of double base propellant (hen-12), 1975 October
  itemnumber: Report no. 1301
Creator: Caveny, L.H.; Felsheim, C.R.; Summerfield, Martin
Propellant burning rate and combustion uniformity identified by ultrasonic acoustic emissions, 1976 January
  itemnumber: Report no. 1302
Creator: Caveny, L.H.; Saber, A.J.; Summerfield, Martin
Erosive effects of various pure and combustion generated gases on metals (Part II), 1977 October
  itemnumber: Report no. 1303
Creator: Alkidas, A.C.; Caveny, L.H.; Christoe, C.W.; Morris, S.O.; Summerfield, Martin
In-flight simulation study of decoupled longitudinal controls for the approach and landing of a stol aircraft, 1977 April
  itemnumber: Report no. 1311
Creator: Ellis, D.R.; Feinreich, Benjamin; Seckel, E.
Experimental research on rail vehicle safety using dynamically scaled models, 1976 September 25
  itemnumber: Report no. 1312
Creator: Sweet, Larry M.
Nucleation at a liquid-liquid interface an exploding drops in emulsified fuel combustion, 1976 July
itemnumber: Report no. 1315
Creator: Avedisian, C.T.
Experimental investigation of aerodynamic characteristics of a tracked ram air cushion vehicle, 1976 December

itemnumber: Report no. 1318
Creator: Curtiss, Howard C.; Putman, W.F.
A study of lightplane stall avoidance and suppression, 1977 February

itemnumber: Report no. 1320
Creator: Ellis, D.R.
Propellant combustion and propulsion: nine year index and abstracts of publications by Princeton University 1968-1976, 1976 December

itemnumber: Report no. 1321
Creator: Sweet, Larry M.
Utilization of energy resources by urban transportation systems, 1977 January

itemnumber: Report no. 1322
Creator: Sweet, Larry M.
Experimental research on rail vehicle safety using dynamically scaled models, 1976 December 25

itemnumber: Report no. 1323
Creator: Sweet, Larry M.
The influence of throttle augmented stability (APCS) and short period control characteristics on the landing approach, 1978 March

itemnumber: Report no. 1325
Creator: G.E. Miller; Stengel, Robert F.
Research on noise generated by ducted air-fuel combustion systems, 1977 March

itemnumber: Report no. 1327
Creator: Plett, E.G.; Summerfield, Martin
Hypersonic viscous interaction about a sharp leading edged flat plate, 1977 April

itemnumber: Report no. 1328
Creator: Bogonoff, Seymour; Vas, I.E.; Whipple, J.
Experimental research on rail vehicle safety using dynamically scaled models, 1977 March 25

itemnumber: Report no. 1333
Creator: Sweet, Larry M.
Experimental and modeling studies of smoldering in flexible polyurethanes, 1977 July 15
  itemnumber: Report no. 1337
  Creator: Bellan, J.; F.E. Rogers; Kurtz, A.; Ohlemiller, T.J.

A theoretical analysis of nonlinear effects on the flutter and divergence of a tube conveying fluid, 1977 August 2
  itemnumber: Report no. 1343
  Creator: Ch'ng, Enoch

Combustion chemistry of chain hydrocarbons, 1977 September
  itemnumber: Report no. 1350
  Creator: Dryer, Frederick L.; Glassman, Irvin

An experimental and analytical investigation of the hovering and forward flight characteristics of the aerocrane hybrid heavy lift vehicle, 1977 September
  itemnumber: Report no. 1351
  Creator: Curtiss, Howard C.; Putman, W.F.

Three-dimensional shock wave turbulent boundary layer interactions - a preliminary analysis of blunted fin-induced flows, 1977 October
  itemnumber: Report no. 1354
  Creator: Bogonoff, Seymour; Cosad, Charles D.; Dolling, David S.

An analysis of the technology base program required in support of airborne short haul heavy lift systems, 1977 November
  itemnumber: Report no. 1356
  Creator: Hazen, D.C.

The concept of an unmanned transatlantic sailing buoy, 1977 May
  itemnumber: Report no. 1358
  Creator: Sweeney, Thomas E.

Oxidation kinetics of hydrocarbon fuels, 1977 December 1
  itemnumber: Report no. 1359
  Creator: Dryer, Frederick L.; Glassman, Irvin

A laser doppler velocimeter for measurement of flows induced by flames propagating over condense fuels, 1978
  itemnumber: Report no. 1361
  Creator: Santoro, R.J.
Numerical calculation of developing laminar flow in pipes of arbitrary curvature radius, 1978 January

itemnumber: Report no. 1362
Creator: Humphrey, Joseph A.C.

A study of the precision hover capabilities of the aerocrahne hybrid heavy lift vehicle, 1978 February

itemnumber: Report no. 1363
Creator: Curtiss, Howard C.; McKillip Jr., R.M.; Putman, W.F.

Propellant combustion and propulsion: ten year index and abstracts of publications by princeton university 1968-1977, 1977 December

itemnumber: Report no. 1364

REC (reciprocating engine combustion): a computer program for the computation of combustion in open and divided chamber reciprocating engines with uniform and stratified charges, 1978 April

itemnumber: Report no. 1365
Creator: Gupta, Harish Chandra

A study of longitudinal controllability and stability requirements for small general aviation airplanes, 1978 August

itemnumber: Report no. 1369
Creator: Ellis, D.R.; Stengel, Robert F.

Solid propellant combustion mechanism research, 1978 April

itemnumber: Report no. 1373
Creator: Bellan, J.; BenReuven, M.; Caveny, L.H.; Summerfield , Martin

Unsteady thin airfoil theory for transonic flows with embedded shocks, 1978 May

itemnumber: Report no. 1376
Creator: Williams, M.H.

High pressure burning rates of multi-base propellants, 1977 December

itemnumber: Report no. 1377
Creator: Caveny, L.H.; Felsheim, C.R.; Pokrocos, L.M.

Numerical calculation of variable property flows in curvilinear orthogonal coordinates, 1978 February

itemnumber: Report no. 1379
Creator: Humphrey, Joseph A.C.
Turbulent flow in an asymmetrically roughened duct of square cross-section, 1978 June

itemnumber: Report no. 1382
Creator: Humphrey, Joseph A.C.

Pollutant formation in isotropic turbulent combustion, 1978 September

itemnumber: Report no. 1386
Creator: Humphrey, Joseph A.C.; Ramos, Juan I.

An integrated evaluation of new fuel and vehicle technologies for transportation: extended models, 1978 August

itemnumber: Report no. 1395
Creator: Sweet, Larry M.; Wilson, Kathryn B.

Flying qualities of an aircraft with strong lateral-directional coupling, 1978 December

itemnumber: Report no. 1396
Creator: G.E. Miller; Stengel, Robert F.

Froude scale dynamic simulation of the heavy lift airship concept, a feasibility study, 1978 September

itemnumber: Report no. 1404
Creator: Putman, W.F.

Inductive storage for quasi-steady mpd thrusters, 1977 September 30

itemnumber: Report no. 1405
Creator: Clark, Kenn E.; Jahn, R.G.; Jaskowsky, Woldemar F. von

Measurements of nonlinear wheelset forces in flange contact using dynamically scaled models, 1980 March

itemnumber: Report no. 1406
Creator: Putman, W.F.; Sivak, Joseph A.; Sweet, Larry M.

Analysis of nonlinear wheelset forces in flange contact, 1978 September 30

itemnumber: Report no. 1407
Creator: Sivak, Joseph A.; Sweet, Larry M.

Laminar flow calculations in internal combustion engines, 1978 October 25

itemnumber: Report no. 1409
Creator: Humphrey, Joseph A.C.; Ramos, Juan I.; Sirignano

Turbulent flow calculations in internal combustion engines, 1978 October 25
itemnumber: Report no. 1410
Creator: Humphrey, Joseph A.C.; Ramos, Juan I.; Sirignano
Three-dimensional shock wave turbulent boundary layer interactions, 1978 November

itemnumber: Report no. 1414
Creator: Dolling, David S.
Fuels combustion research, 1978 December 1

itemnumber: Report no. 1415
Creator: Dryer, Frederick L.; Glassman, Irvin; Santoro, R.J.
Smoldering combustion studies, 1978 December

itemnumber: Report no. 1417
Creator: F.E. Rogers; Ohlemiller, T.J.
An experimental investigation of flame spread over condensed combustibles: gas phase interactions, 1978 November 30

itemnumber: Report no.1418
Creator: Dryer, Frederick L.; Fernadez-Pello, A.C.; Glassman, Irvin; Santoro, R.J.
Acoustoelastic scaling laws, 1978 December

itemnumber: Report no. 1420
Creator: Dowell, E.H.
Supersonic, high reynolds number flow over a tangent ogive cylinder at small angles of attack: an experimental study and comparison with theory, 1979 January

itemnumber: Report no. 1421
Creator: Bogonoff, Seymour; Dolling, David S.
An in-flight simulator investigation of roll and yaw control power requirements for stol approach and landing: developing of capability and preliminary results, 1979 April

itemnumber: Report no. 1422
Creator: Ellis, D.R.; Raisinghani, S.C.
Digital flight control research using microprocessor technology, 1980 May 23

itemnumber: Report no. 1425
Creator: Seat, James C.; Stengel, Robert F.
The aerodynamics of tracked ram air cushion vehicles - effects of pitch attitude and upper surface low, 1979 October

  itemnumber: Report no. 1426
  Creator: Barrows, T.M.; Curtiss, Howard C.; Putman, W.F.

The aerodynamics of tracked ram air cushion vehicles - static lateral/directional characteristics, 1979 February

  itemnumber: Report no. 1427
  Creator: Curtiss, Howard C.

A simulator study of control and display augmentations for helicopters, 1980 January

  itemnumber: Report no. 1428
  Creator: Adamson, James C.; Born, Gerardus J.; Dukes, Theodor

REC-P# (reciprocating engine combustion, planar geometry, third version): a computer program for combustion in reciprocating engines, 1979 March

  itemnumber: Report no. 1431
  Creator: Gupta, Harish Chandra; Syed, S.A.

Smoldering combustion studies of rigid cellular plastics, 1979 May 7

  itemnumber: Report no. 1432
  Creator: F.E. Rogers; Ohlemiller, T.J.

Evaluation of candidate metals in a simulated space shuttle main engine environment for application as turbine blade dampers, 1979 April

  itemnumber: Report no. 1436
  Creator: Caveny, L.H.; Morris, Samuel O.

Annual report to the air force office of scientific research on research on unsteady combustion processes, 1978 November

  itemnumber: Report no. 1439
  Creator: Caveny, L.H.; Gany, A.; Micci, M.M.

The influence of feedback on the aeroelastic behavior of tilt propotor aircraft including the effects of fuselage motion, 1979 July

  itemnumber: Report no. 1441
  Creator: Curtiss, Howard C.; Komatsuzaki, T.; Traybar, Joseph J.

Development of a new transportation component to an interactive technology/society course, 1979 July 31

  itemnumber: Report no. 1442
Creator: Miles, Richard B.; Sweet, Larry M.; Williams, Thomas O.

A preliminary investigation of the aerodynamics and control of the cyclocrane hybrid heavy lift vehicle, 1979 May
  itemnumber: Report no. 1444

Creator: Curtiss, Howard C.

The homogenous oxidation kinetics of hydrocarbons: concisely and with application, 1980 February 1
  itemnumber: Report no. 1446

Creator: Glassman, Irvin

Fundamental combustion studies of emulsified fuels, 1979 September 30
  itemnumber: Report no. 1453

Creator: Dryer, Frederick L.; Fernadez-Pello, A.C.; Glassman, Irvin

Comparisons among various theories for turbulent, reacting, planar mixing layers, 1980 January 21
  itemnumber: Report no. 1460

Creator: Parker, Stephen F.; Sirignano

Acoustoelasticity: review and extension, 1980 February
  itemnumber: Report no. 1463

Creator: Bliss, Donald B.; Chen-fu, Chao; Dowell, E.H.

Transition and conversion trim-maps for the av-8a vtol aircraft, 1980 August
  itemnumber: Report no. 1466

Creator: Hildreth, Bruce

Pulsed electromagnetic gas acceleration (Part XIV), 1979 April
  itemnumber: Report no. 1467

Creator: Clark, Kenn E.; Jahn, R.G.; Jaskowsky, Woldemar F. von

Pulsed electromagnetic gas acceleration (Part XV), 1980 March
  itemnumber: Report no. 1467b

Creator: Jahn, R.G.; Kelly, Arnold J.

Pulsed electromagnetic gas acceleration (Part XVI), 1980 September 30
  itemnumber: Report no. 1467c

Creator: Jahn, R.G.; Kelly, Arnold J.

Pulsed electromagnetic gas acceleration (XVII), 1981 March 30
  itemnumber: Report no. 1467d
Creator: Jahn, R.G. ; Kelly, Arnold J.

Pulsed electromagnetic gas acceleration (XVIII), 1982 March 31
  itemnumber: Report no. 1467f
Creator: Jahn, R.G. ; Jaskowsky, Woldemar F. von ; Kelly, Arnold J.

Pulsed electromagnetic gas acceleration, 1982 September 30
  itemnumber: Report no. 1467g
Creator: Jahn, R.G. ; Kelly, Arnold J.

Pulsed electromagnetic gas acceleration, 1983 March 30
  itemnumber: Report no. 1467h
Creator: Jahn, R.G. ; Kelly, Arnold J.

Pulsed electromagnetic gas acceleration, 1984 August
  itemnumber: Report no. 1467i
Creator: Jahn, R.G. ; Kelly, Arnold J.

Experimental investigation of three-dimensional shock wave turbulent boundary layer interaction: an exploratory study of blunt fin-induced flows, final report, 1980 March
  itemnumber: Report no. 1468
Creator: Bogonoff, Seymour; Dolling, David S.

Visual recording of high pressure gas and liquid fuel injection in an internal combustion engine, 1980 July
  itemnumber: Report no. 1482
Creator: Bracco, F.V.; Kuo, T.W.; Steinberger, R.L.

Experimental study of three-dimensional shock wave turbulent boundary layer interaction - scaling of sharp and blunt fin-induced flowfields, 1980 July
  itemnumber: Report no. 1483
Creator: Bogonoff, Seymour; Dolling, David S.

Blast wave model, 1980
  itemnumber: Report no. 1484
Creator: Sod, Gary A.

Separated flow and boundary layer research, 1980 October
  itemnumber: Report no. 1494
Creator: Bogonoff, Seymour; Settles, G.S.
An examination of the feasibility of using dynamic models for pilot in the loop simulation, 1980 October
  itemnumber: Report no. 1503
  Creator: Curtiss, Howard C.; Ebert, F.J.

General plotting program for Princeton cms timesharing system, 1980 December 22
  itemnumber: Report no. 1506
  Creator: Nichols, R.; Stengel, Robert F.

Quasi-steady magnetoplasmadynamic, 1981 June
  itemnumber: Report no. 1507a
  Creator: Burton, Rodney L.; Clark, Kenn E.; Jahn, R.G.

Design considerations for a flight data acquisition system, 1981 January
  itemnumber: Report no. 1510
  Creator: Sri-Jayantha, M.; Stengel, Robert F.

Digital command augmentation for lateral-directional aircraft dynamics, 1981 May
  itemnumber: Report no. 1511
  Creator: Atzhorn, David

Fuels combustion research, 1981 February 27
  itemnumber: Report no. 1513
  Creator: Dryer, Frederick L.; Glassman, Irvin

Fundamental and semi-global kinetic mechanisms for hydrocarbon combustion, 1981 March
  itemnumber: Report no. 1517
  Creator: Brezinsky, Kenneth; Dryer, Frederick L.; Glassman, Irvin

Linear/nonlinear behavior in unsteady transonic aerodynamics, undated
  itemnumber: Report no. 1520
  Creator: Bland, Samuel R.; Dowell, E.H.; Williams, Marc H.

VRA and ARA calibration data manual, 1981 July 8
  itemnumber: Report no. 1521
  Creator: Malagon, Martha; Nichols, R.; Stengel, Robert F.

Compressible turbulent boundary layer interaction experiments, 1981 May
  itemnumber: Report no. 1525
  Creator: Settles, G.S.
Axisymmetric laser tomography with engine applications, 1981 May 6
  itemnumber: Report no. 1526
  Creator: Hughey, Barbara J.

Flying qualities criteria for single-pilot instrument flight operations, 1981 May
  itemnumber: Report no. 1528
  Creator: Bar-Gill, Aharon; G.E. Miller; Nixon, W.B.

An experimental investigation of tip bluntness effects on the turbulent compressible boundary layer on an axisymmetric body, 1981 May
  itemnumber: Report no. 1530
  Creator: Bogonoff, Seymour; Dolling, David S.; Gray, William K.

Shock wave/turbulent boundary layer interactions in two and three dimensions, 1981 December 15
  itemnumber: Report no. 1546
  Creator: Settles, G.S.

Tidal modelling of the hudson-raritan estuary, 1982
  itemnumber: Report no. 1551
  Creator: Hires, R.I.; Mellor, R.I.; Oey, L.Y.

An experimental investigation of the unsteady behavior of blunt fin-induced shock wave turbulent boundary layer interactions, 1982 May
  itemnumber: Report no. 1562
  Creator: Bogonoff, Seymour; Dolling, David S.

Uniform semiclassical evaluation of franck-condon factors in study of atom-diatom reactive collisions, 1982 June
  itemnumber: Report no. 1567
  Creator: Vallee, Olivier

Command augmentation incorporating direct side force control and microprocessor technology, 1982 August
  itemnumber: Report no. 1578
  Creator: Grunwald, Scott L.

Fundamental combustion studies of emulsified fuels, 1982 August
  itemnumber: Report no. 1581
  Creator: Dryer, Frederick L.; Kennedy, I.M.
Compilation of wall pressure and turbulent boundary layer data for supersonic, high reynolds number flow over a blunted tangent ogive cylinder at small angles of attack, 1982 September

itemnumber: Report no. 1585
Creator: Dolling, David S.; Gray, K.

Notes on the control and stability of a hybrid LTA vehicle, 1982 September

itemnumber: Report no. 1596
Creator: Curtiss, Howard C.

An experimental study into the scaling of an unswept-sharp-fin-generated shock/turbulent boundary layer interaction, 1983 January

itemnumber: Report no. 1597
Creator: McClure, William B.

Evaluation of achievable internal combustion engine economy and emissions performance by improved engine control, 1984

itemnumber: Report no. 1599
Creator: Born, Geradus J.; Durbin, Enoch; Ferguson, Thomas F.; Itow, Koichiro; Leon, Ruben

Compilation of turbulence data for reattaching shear layer at Mach 2.9, 1983 April

itemnumber: Report no. 1601
Creator: Hayakawa, K.; Smits, A.J.

Solution of the euler equations for two dimensional transonic flow by a multigrid method, 1983 June

itemnumber: Report no. 1613
Creator: Jameson, Antony

Wheelclimb derailment processes and derailment criteria, 1983 August

itemnumber: Report no. 1618
Creator: Karmel, Amir; Sweet, Larry M.

Compilation of turbulence data for a 16 degree compression corner at mach 2.9, 1983 November

itemnumber: Report no. 1619
Creator: Hayakawa, K.; Muck, K.C.; Smits, A.J.

Compilation of turbulence data for a 20 degree compression corner at mach 2.9, 1983 December

itemnumber: Report no. 1620
Creator: Hayakawa, K.; Muck, K.C.; Smits, A.J.
Performance and force loading of powered trucks for high speed rail vehicles, 1983 August
  itemnumber: Report no. 1626
Creator: Ferri, A.; Sweet, Larry M.
Automatic adaptive grid refinement for the euler equations, 1983 October
  itemnumber: Report no. 1633
Creator: Berger, Marsha J.
Application of sensitivity analysis to combustion chemistry: a comprehensive study of moist co oxidation kinetics with elementary sensitivities, 1983 November
  itemnumber: Report no. 1637
Creator: Dryer, Frederick L.; Yetter, R.A.
Coke formation in the combustion of isolated heavy oil droplets, 1983 November
  itemnumber: Report no. 1638
Creator: Dryer, Frederick L.; Kennedy, I.M.; Marrone, N.J.
Fuels combustion research, 1983 November 22
  itemnumber: Report no. 1640
Creator: Glassman, Irvin
A study of the high temperature oxidation of 1, 3 - butadiene, 1983 December
  itemnumber: Report no. 1644
Creator: Burke, E.J.
Conditions for the construction of multi-point total variation diminishing difference schemes, 1984 April
  itemnumber: Report no. 1650
Creator: Jameson, Antony; Lax, Peter D.
Transonic flow calculations, 1983 July 12
  itemnumber: Report no. 1651
Creator: Jameson, Antony
Transonic flow calculations, 1984 March
  itemnumber: Report no. 1651
Creator: Jameson, Antony
Research on thermionic plasmas, 1984 June
  itemnumber: Report no. 1662
Creator: Lam, S.H.; Main, G.L.
Artificial intelligence theory and reconfigurable control systems, 1984 June 30
  itemnumber: Report no. 1664
Creator: Stengel, Robert F.
An application of artificial theory to reconfigurable flight control, 1984 June 30
  itemnumber: Report no. 1665
Creator: Handelman, David A.
A lisp-based expert system for detecting failures in aircraft systems, 1984 June 30
  itemnumber: Report no. 1666
Creator: Huang, Chien Y.
Advanced electric propulsion mpd, 1979 October
  itemnumber: Report no. 1672-1677
Creator: Clark, Kenn E.; Jahn, R.G.; Jaskowsky, Woldemar F. von
Analysis of the sh-2f helicopter servo-flap rotor system, 1983 August
  itemnumber: Report no. 1682
Creator: Curtiss, Howard C.
Experimental evaluation of rayleigh scattering signals for a simulated entry environment, 1984 November
  itemnumber: Report no. 1686
Creator: Miles, Richard B.
Pulsed electromagnetic acceleration, 1986 June
  itemnumber: Report no. 1692
Calibration of the constant temperature normal hot-wire anemometer in transonic flow, 1985 April
  itemnumber: Report no. 1696
Creator: Rong, B.S.; Smits, A.J.; Tan, D.K.M.
Computational singular perturbation procedure for stiff equations, 1985 August 21
  itemnumber: Report no. 1697
Creator: Lam, S.H.
Combustion behavior of free boron slurry droplets, 1985 May 20
  itemnumber: Report no. 1702
Creator: Dryer, Frederick L.; Takahashi, F.; Williams, Forman A.
The application of a resonant doppler velocimeter to the measurement of off-body flow field in supersonic and transonic flows, 1985 June
    itemnumber: Report no. 1705
Creator: Miles, Richard B.
Computations and analysis of transient hollow cone sprays, 1985 June
    itemnumber: Report no. 1706
Creator: Takagi, T.
Measurement of separate velocity, pressure, and temperature components in turbulent nitrogen supersonic flows, 1985 June
    itemnumber: Report no. 1707
Creator: Miles, Richard B.; Smits, A.J.; Zimmerman, M.
Compilation of turbulence data for two concavely curved walls at Mach 2.9, 1985 August
    itemnumber: Report no. 1711
Creator: Formica, J.P.; Jayaram, M.; Smits, A.J.
Wave propagation and reflection in irregular grids for hyperbolic equations, 1985 July
    itemnumber: Report no. 1713
Creator: Vichnevetsky, R.
Particle-like properties of numerical wave propagation, 1985 July
    itemnumber: Report no. 1714
Creator: Vichnevetsky, R.
The generation of unstructured grids using Dirichlet tessellations, 1985 July
    itemnumber: Report no. 1715
Creator: Weatherill, Nigel P.
On steady-state and partial equilibrium approximations for chain reactions, 1985 September
    itemnumber: Report no. 1722
Creator: Lam, S.H.
Three-dimensional shock wave and turbulent boundary layer interactions, 1985 September
    itemnumber: Report no. 1723
Creator: Bogonoff, Seymour
Bubble growth in finite superheated liquids, 1985 September
   itemnumber: Report no. 1724
   Creator: Yap, Loo T.

Study of longitudinal curvature effects in turbulent boundary layers, with application to drag reduction, 1985 October
   itemnumber: Report no. 1725
   Creator: Smits, A.J.

Further studies of the response of single rotor helicopters to vortex encounters, 1985 September
   itemnumber: Report no. 1726
   Creator: Curtiss, Howard C.; Zhou, Zhen-gen

The disruptive combustion of multi-component solution droplets, 1985 September
   itemnumber: Report no. 1727
   Creator: Yap, Loo T.

Invariance theorems concerning reflection at numerical boundaries, 1985 November
   itemnumber: Report no. 1730
   Creator: Vichnevetsky, R.

Organized structures in a supersonic turbulent boundary layer, 1986 February
   itemnumber: Report no. 1736
   Creator: Smits, A.J.; Spina, Eric F.

The response of a compressible turbulent boundary layer to short regions of concave surface curvature, 1986 January
   itemnumber: Report no. 1737
   Creator: Jayaram, M.; Smits, A.J.; Taylor, Margaret W.

Applications of digital control to impact printer mechanisms, 1986 February 11
   itemnumber: Report no. 1738
   Creator: Taylor, Robert M.

An application of a lisp based expert system for failure diagnosis of the ch-47 flight control hydraulic system, 1986 March 2
   itemnumber: Report no. 1741
   Creator: Loh, Christopher J.

Multigrid algorithms for compressible flow calculations, 1985 October 4
itemnumber: Report no. 1743
Creator: Jameson, Antony
Flight and laboratory experiments with a voice recognition system, 1985
itemnumber: Report no. 1745
Creator: Huang, Chien Y.; Stengel, Robert F.
A test on the reliability and performance of the verbex series 4000 voice recognizer, 1985 September
itemnumber: Report no. 1748
Creator: Suntharalingam, P.
A demonstration expert system for implementing emergency procedures in a high-performance fighter aircraft, 1986 April
itemnumber: Report no. 1749
Creator: Belkin, Brenda L.
A prototype maintenance expert system for the ch-47 flight control hydraulic system, 1986 April 28
itemnumber: Report no. 1751
Creator: Loh, Christopher J.
Charged slurry droplet research, 1986 December
itemnumber: Report no. 1770
Creator: Jahn, R.G.; Kelly, Arnold J.
Electric propulsion laboratory progress report, 1987 January
itemnumber: Report no. 1776.01-1776.04
Electric propulsion laboratory progress report, 1989 September-October
itemnumber: Report no. 1776.21-1776.24
Electric propulsion laboratory progress report, 1991 March-April
itemnumber: Report no. 1776.30
Electric propulsion laboratory progress report, 1990 May-June
itemnumber: Report no. 1776.25
Replication in random event generator experiments: a meta-analysis and quality assessment, 1987 August
itemnumber: Report no. Nelson, pt. 1
Creator: Nelson, R.D.; Radin, Dean I.
Electric propulsion laboratory progress report, 1992 November-December
itemnumber: Report no. 1776.40

Electric propulsion laboratory progress report, 1987 May
  itemnumber: Report no. 1776.05-10

Electric propulsion laboratory progress report, 1988 January-February
  itemnumber: Report no. 1776.11-.15

Electric propulsion laboratory progress report, 1988 November-December
  itemnumber: Report no. 1776.16

Electric propulsion laboratory progress report, 1992 January-February
  itemnumber: Report no. 1776.35-39

Research on computational singular perturbation - progress report #1: basic theory, 1987 June
  itemnumber: Report no. 1779a
  Creator: Goussis, D.A.; Lam, S.H.

Advanced electric propulsion mpd, 1987 March 31
  itemnumber: Report no. 1791

Demonstration of two-dimensional temperature maps of flow fields representative of hypersonic test environments, 1987 October
  itemnumber: Report no. 1794t
  Creator: Miles, Richard B.

Understanding complex chemical kinetics with computational singular perturbation, 1988 January 4
  itemnumber: Report no. 1779
  Creator: Goussis, D.A.; Lam, S.H.

Artificial intelligence theory and reconfigurable control systems, 1988 June
  itemnumber: Report no. 1826
  Creator: Stengel, Robert F.

Some new observations on methanol oxidation chemistry, 1988 October
  itemnumber: Report no. 1841
  Creator: Dryer, Frederick L.; Norton, Thomas S.

Automatic design of transonic airfoils to reduce the shock induced pressure drag, 1990 February
  itemnumber: Report no. 1881
  Creator: Jameson, Antony
Laminar flame speeds of mixtures of c2 hydrocarbons with oxygen and nitrogen, 1990 April
  itemnumber: Report no. 1891

Using CSP to understand complex chemical kinetics, 1992 October 15
  itemnumber: Report no. 1941
  Creator: Lam, S.H.

The effects of fast chemical reactions on mass diffusion, 1992 August 5
  itemnumber: Report no. 1953
  Creator: Lam, S.H.

The direct control of wall shear stress in turbulent boundary layer, 1992 August 31
  itemnumber: Report no. 1954
  Creator: Brown, Garry L.; Nosenchuck, Daniel M.

Reactivity of an 87 octane number blend of the primary reference fuels with added nitric oxide, 1992 October 13
  itemnumber: Report no. 1961
  Creator: Held, Timothy J.; Kowalski, Stephen; Stein, Yolanda S.

Reaction studies on n-butane and oxygen system at 12.5 atmospheres and 500-800K, 1992 October 13
  itemnumber: Report no. 1962
  Creator: Dryer, Frederick L.; Held, Timothy J.; Stein, Yolanda S.

Fundamental studies on the combustion of heavy liquid fuels: coke particulate formation and destruction, 1993 March
  itemnumber: Report no. 1969
  Creator: Dryer, Frederick L.

An experimental and computational study on the structure of nitrogen-diluted near-stoichiometric methane/air counterflow flames, 1993 December 6
  itemnumber: Report no. 1988
  Creator: Law, C.K.; Sung, C.J.; Yu, G.

Transient numerical modeling of carbon particle ignition and oxidation, 1993 August
  itemnumber: Report no. 1980
  Creator: Dryer, Frederick L.; Lee, Jerry C.; Yetter, R.A.
A system for imaging and displaying three-dimensional time-evolving passive scalar concentration fields in fluid flow, 1994 January
  itemnumber: Report no. 1992
  Creator: Delo, C.; Poggie, J.; Smits, A.J.
Extinction of premixed methane-air flames with volumetric heat loss, 1994
  itemnumber: Report no. 1998
  Creator: Bechtold, J.K.; Law, C.K.
Theoretical basis for estimated test times and conditions for drop tower and space-based droplet burning experiments with methanol and n-heptane, 1994 August
  itemnumber: Report no. 1999
  Creator: Choi, Mun Y.; Dryer, Frederick L.; Marchese, Anthony J.
Design, implementation, and validation of flux limited schemes for the solution of the compressible navier-stokes equations, 1995
  itemnumber: Report no. 2009
  Creator: Tatsumi, Shigefumi
Technology assessment and baseline concepts for intelligent aircraft/airspace systems, 1995 February
  Creator: Stengel, Robert F.; Wangermann, John P.
Stability for a bottom-heavy underwater vehicle, 1995 November 22
  itemnumber: Report no. 2048
  Creator: Leonard, Naomi Ehrich
On effects of thermophoresis on seeding particles in LDV and PIV measurements of strained flames, 1995 July 1
  itemnumber: Report no. 2036
A semi-empirical mechanism for n-heptane oxidation and pyrolysis, 1995 October
  itemnumber: Report no. 2051
  Creator: Dryer, Frederick L.; Held, Timothy J.; Marchese, Anthony J.
Ignition in opposed-flowing methane-air jets, 1995 December 28
  itemnumber: Report no. 2056
  Creator: Fotache, C.G.; Kreutz, T.G.; Law, C.K.
On the mild and vigorous oxidation of mixtures of chlorinated hydrocarbons in droplet burning, 1996 January
  itemnumber: Report no. 2058
  Creator: Law, C.K.; Sung, C.J.; Wang, H.

A detailed kinetic modeling study of aromatics formation in laminar premixed acetylene and ethylene flames, 1996 March
  itemnumber: Report no. 2059
  Creator: Frenklach, Michael; Wang, H.

Development and demonstration of filtered Rayleigh scattering - a laser based flow diagnostic for planar measurement of velocity, temperature, and pressure, 1996 April
  itemnumber: Report no. 2067
  Creator: Forkey, Joseph N.

The effect of non-luminous thermal radiation in microgravity droplet combustion, 1996 July 18
  itemnumber: Report no. 2094
  Creator: Dryer, Frederick L.; Marchese, Anthony J.

Laminar burning velocities of trifluoromethane-methane mixtures: experiment and numerical simulation, 1997 April
  itemnumber: Report no. 3000

Laminar flame speeds of mixtures of dichloromethane and trichloromethane with methane: experiments and numerical simulation, 1997 April
  itemnumber: Report no. 3003

Dynamics of the Kirchhoff equations I: coincident centers of gravity and buoyancy, 1997 July 24
  itemnumber: Report no. 3005
  Creator: Holmes, Philip; Jenkins, Jeffrey; Leonard, Naomi Ehrich

A comprehensive kinetic mechanism for chlorinated methane combustion, 1997 December
  itemnumber: Report no. 3018
  Creator: Law, C.K.; Leylegian, J.C.; Wang, H.

Structure and sooting limits of counterflow methane/air and propane/air diffusion flames at elevated pressures, 1998 April 15
itemnumber: Report no. 3027  
Creator: Law, C.K.; Li, B.; Sung, C.J.; Wang, H.  
Dynamics of weakly-stretched flames: quantitative description and extraction of global flame parameters, 1998 September 9

itemnumber: Report no. 3033  
Creator: He, L.; Law, C.K.; Sun, C.J.; Sung, C.J.  
A comprehensive kinetic model for iso-octane/air and n-heptane/air combustion, 1998 October

itemnumber: Report no. 3034  
Creator: Davis, S.G.; Law, C.K.  
The development of the Princeton University three-dimensional analog computing facility, and the development of the Princeton University lifting line calculator, 1958 June

itemnumber: Report no. 424  
Creator: Willauer, Whiting R.  
A study of the kinetics of the hydrogen-oxygen reaction in a new flow reactor, 1958 August 15

itemnumber: Report no. 432  
Creator: Swigart, Rudolph J.; Crocco, Luigi; Glassman, Irvin  
The investigation of the fundamental parameters which govern the aerodynamics of various wing-propeller combinations as related to vectored slipstream aircraft , 1958 October

itemnumber: Report no. 437  
Creator: Augustine, Norman R.  
The study of some nearly free molecular flow problems , 1958

itemnumber: Report no. 440  
Creator: Willis, D. Roger (Donald Roger),1933-  
An investigation of the flow around slender delta wings with leading edge separation, 1960 May

itemnumber: Report no. 510  
Creator: Bergesen, Andrew J.; Porter, James D.  
Maneuvering capability of an annular jet ground effect machine, 1960 May

itemnumber: Report no.515  
Creator: Nixon, W. B.(W. Barry)
The effect of configuration on the lift augmentation ratio of a two dimensional open plenum ground effect machine, 1960 May
  itemnumber: Report no.516
  Creator: Wright, Dean E.

Hypersonic flow over cones, 1960 September
  itemnumber: Report no.523
  Creator: Berger, Stanley A., 1934-2013

Experimental determination of spanwise lift effects on a wing of infinite aspect ratio spanning a circular jet, 1961 February
  itemnumber: Report no.525
  Creator: Snedeker, Richard Stockton

Compressibility effect in a boundary layer in a corner, 1960 August
  itemnumber: Report no.539
  Creator: Habert, Roger

Analysis of longitudinal high frequency combustion instability in a gas fueled rocket motor, 1961 December 5
  itemnumber: Report no.587
  Creator: Bortzmeyer, Hubert G.; Crocco, Luigi

An experimental investigation of longitudinal combustion instability in a rocket motor using premixed gaseous propellants, 1961 December
  itemnumber: Report no.589
  Creator: Pelmas, R.; Glassman, Irvin; Webb, Maurice J.

An investigation of transverse mode combustion instability in liquid propellant rocket motors, 1961 June 1
  itemnumber: Report no.550
  Creator: Reardon, Frederick H.; Crocco, Luigi; Harrje, David T.

Data compilation for shock wave/turbulent boundary layer interaction experiments on two-dimensional compression corners, 1980 August
  itemnumber: Report no. 1489
  Creator: Settles, G. S. (Gary S.), 1949-; Gilbert, R. B.; Bogdonoff, Seymour M.