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### Subject Headings

- Aerospace engineering
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Measurements of total energy radiated from an Argon arcjet, 1962 August
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A theoretical and experimental investigation of the feasibility of the intermittent ram-jet engine, 1951 August 1
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A mixing theory for the interaction between dissipative flows and nearly-isentropic streams, 1952 January 15
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Operating characteristics of the Princeton University 14"x2" smoke tunnel, 1953 April

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Separation of a supersonic turbulent boundary layer, 1954 January
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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 distrubition 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 prandtl-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. 487

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

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
Solid propellant combustion and propulsion: six year index and abstracts of publications by princeton university 1968-1973, 1974 January
   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 instability 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 aerocane 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 aerocrane 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 3

  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, Geradus 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
   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.