

AUTHOR INDEX

A

- ADRIAN, F. J.—See COCHRAN, E. L.
AKRIDGE, J. M.—See HILL, M. L.
APEL, J. R.—*Ways and Means of Boat Design*, **5**,
2, November–December 1965, pp. 18–23
———, E. P. GRAY, and A. M. STONE—*Beam-
Plasma Interactions*, **3**, 5, May–June 1964, pp.
2–11
AVERY, W. H.—*Status and Future Trends in High-
Speed Chemical Propulsion*, **4**, 6, July–August
1965, pp. 2–9
——— See HILL, M. L.

B

- BEAL, R. C.—*Design and Performance of the
DODGE Cameras*, **6**, 5, May–June 1967, pp.
9–14
BERGIN, T. G.—*For A Space Prober*, **2**, 2, Novem-
ber–December 1962, p. 2
BILLERBECK, W. J.—See OAKES, J. B.
BOSTROM, C. O.—See WILLIAMS, D. J.
BOWERS, V. A.—See COCHRAN, E. L.
BRUCK, S. D.—*The Domain of Polymeric Ma-
terials*, **3**, 2, November–December 1963, pp. 2–
12
BUNT, E. A. and H. L. OLSEN—*Plasma Arc Heat-
ing for Hypersonic Wind Tunnels*, **1**, 2, Novem-
ber–December 1961, pp. 16–18

C

- CHESTON, T. C.—*Criteria for Conically Scanned
Tracking Antennas*, **1**, 5, May–June 1962, pp.
12–18
——— and E. J. LUOMA—*Constant-K Lenses*, **2**,
4, March–April 1963, pp. 8–11
CHUBBUCK, J. G.—*Small-Motion Biological Stim-
ulator*, **5**, 5, May–June 1966, pp. 18–23
COCHRAN, E. L., F. J. ADRIAN, and V. A. BOWERS
—*Trapped Free Radicals*, **2**, 3, January–Febru-
ary 1963, pp. 2–9
COTE, A. J., JR.—*The Frog and the Radar Dis-
play*, **1**, 4, March–April 1962, pp. 8–14

D

- DEHAAS, N.—See WESTENBERG, A. A.
DUNNELL, C. A.—*TRANET Doppler Tracking
System*, **6**, 4, March–April 1967, pp. 17–23

E

- ELDER, S. A.—*Physicists and Fipple Flutes at APL*,
3, 3, January–February 1964, pp. 15–18
EVANS, R. C.—*The APL Resistance Welder and
Its Role in Satellite Reliability*, **5**, 1, September–
October 1965, pp. 2–7

F

- FASTIE, W. G.—*Rockets and the Aurora Borealis*,
5, 5, May–June 1966, pp. 5–10
FEHLNER, L. F.—*Improved Data for the Classical
Determination of Radar Detection Range*, **3**,
2, November–December 1963, pp. 17–24
FISCHELL, R. E.—*The TRAAC Satellite*, **1**, 3,
January–February 1962, pp. 2–9
——— *Effect of the Artificial Radiation Belt on
Solar Power Systems*, **2**, 2, November–December
1962, pp. 8–13
——— *Gravity Gradient Stabilization of Earth
Satellites*, **3**, 5, May–June 1964, pp. 12–21
——— *Spin Control for Earth Satellites*, **5**, 1,
September–October 1965, pp. 8–13
FONER, S. N. and R. L. HUDSON—*Mass Spec-
trometry of Free Radicals and Metastable Mole-
cules*, **5**, 4, March–April 1966, pp. 2–11
FRIEDMAN, G. E.—See NAGY, A. W.
FRISTROM, R. M. and A. A. WESTENBERG—*Funda-
mental Processes and Laminar Flame Structure*,
1, 3, January–February 1962, pp. 10–15
——— See WILSON, W. E., JR.

G

- GIBSON, R. E.—*Excerpts from the Report of the
Director*, **1**, 3, January–February 1962, pp. 25–
26; **2**, 3, January–February 1963, pp. 24–26; **3**,
3, January–February 1964, pp. 19–22; **4**, 3, Janu-
ary–February 1965, pp. 18–22; **5**, 3, January–
February 1966, pp. 18–22; **6**, 3, January–Febru-
ary 1967, pp. 16–22
——— *An Appreciation*, **5**, 5, May–June 1966,
p. 2
GOOD, W. A.—*A Scientist and His Hobby*, **2**, 3,
January–February 1963, pp. 18–23
GOSS, W. H.—*George W. Gardiner and New
Mexico State University*, **1**, 2, November–De-
cember 1961, pp. 20–21
GRAY, E. P.—See APEL, J. R.
GUIER, W. H.—*Satellite Geodesy*, **4**, 3, January–
February 1965, pp. 2–12

H

- HAAVE, C. R., A. J. ZMUDA, and B. W. SHAW—*VLF Phase Perturbations Associated with High-Altitude Nuclear Bursts*, **2**, 2, November–December 1962, pp. 14–19
- and B. W. SHAW—*Frequency Monitoring and Nuclear Burst Detection: Some Aspects of VLF*, **4**, 4, March–April 1965, pp. 2–10
- See SHAW, B. W.
- HALLENDORFF, R. H.—*A Method of Radome Compensation with Broadband Capability*, **4**, 1, September–October 1964, pp. 10–16
- HART, R. W.—*Combustion Instability in Solid Rockets*, **1**, 6, July–August 1962, pp. 8–18
- HENDERSON, R. W.—See MAKOFSKI, R. A.
- HICKS, R. E.—*Chemical Milling of Space Flight Hardware*, **6**, 4, March–April 1967, pp. 11–16
- HILL, M. L.—*Materials for Structural Use Above 3000 Degrees F*, **3**, 4, March–April 1964, pp. 2–13
- *Old Faithful, World Endurance Record Radioplane*, **4**, 5, May–June 1965, pp. 17–22
- , J. M. AKRIDGE, and W. H. AVERY—*Thermal Insulation for Hypersonic Vehicles*, **1**, 6, July–August 1962, pp. 2–7
- HOCHHEIMER, B. F. and J. T. MASSEY—*Laser Modes*, **3**, 3, January–February 1964, pp. 2–8
- HUDSON, R. L.—See FONER, S. N.
- HUGGINS, W. H.—*Computer Pantomimes*, **5**, 5, May–June 1966, pp. 11–17
- HUNT, R. J.—*Availability Model for Shipboard Equipment*, **2**, 5, May–June 1963, pp. 9–16

K

- KATZ, I.—*Radar Reflectivity of the Earth's Surface*, **2**, 3, January–February 1963, pp. 10–17
- *Ocean Wave Measurements*, **4**, 1, September–October 1964, pp. 2–6
- *Probing the Clear Atmosphere with Radar*, **6**, 1, September–October 1966, pp. 2–8
- KEARNS, J. P.—*Missile-Wing Flutter Simulation*, **2**, 4, March–April 1963, pp. 12–16
- KELLEY, M. R.—*The Terrier—A Capsule History of Missile Development*, **4**, 6, July–August 1965, pp. 18–26
- KERSHNER, R. B.—*Present State of Navigation by Doppler Measurement from Near Earth Satellites*, **5**, 2, November–December 1965, pp. 2–9
- KIRK, H. F., JR.—See OLSEN, H. L.
- KOMISKE, P. T.—*Error Detection and Correction Codes*, **5**, 2, November–December 1965, pp. 10–17

L

- LIBEN, W.—*Microelectronics at the Applied Physics Laboratory*, **3**, 1, September–October 1963, pp. 2–12
- LUOMA, E. J.—See CHESTON, T. C.

M

- MACARTHUR, J. L.—See TAYLOR, S. A.
- MAKOFSKI, R. A.—*The Helium Hypersonic Wind Tunnel*, **2**, 5, May–June 1963, pp. 2–8
- and R. W. HENDERSON—*Considerations in the Design and Performance of Hypersonic Gun Tunnels*, **6**, 3, January–February 1967, pp. 2–8
- MASON, E. A.—See MONCHICK, L.
- MASSEY, J. T.—See HOCHHEIMER, B. F.
- MCDOWELL, R. B.—*Improved Detection of PCM Waveforms*, **5**, 4, March–April 1966, pp. 12–18
- MONCHICK, L.—*Quantum Effects in Molecular Scattering*, **5**, 3, January–February 1966, pp. 11–15
- and E. A. MASON—*Relaxation Phenomena in the Kinetic Theory of Gases*, **1**, 6, July–August 1962, pp. 19–23
- MOORE, R. C.—*Computer-Aided Layout of Mini-stick Artwork*, **6**, 3, January–February 1967, pp. 9–15
- MORTON, H. S.—*Unique Bowsprit Assures Greater Control for Sailing Catamaran*, **4**, 4, March–April 1965, pp. 17–23
- MOWBRAY, G. H.—*A Scientist and His Hobby—The Technology of Wine Making*, **3**, 6, July–August 1964, pp. 18–23
- *Some Human Perceptual Limits*, **1**, 3, January–February 1962, pp. 21–24

- MUNSTERMAN, G. T.—*Tunnel-Diode Microwave Amplifiers*, **4**, 5, May–June 1965, pp. 2–10

N

- NAGY, A. W. and G. E. FRIEDMAN—*Zero-Field Maser*, **3**, 6, July–August 1964, pp. 2–12
- NISSON, C. J.—*A Triode-Diode Function Generator*, **2**, 6, July–August 1963, pp. 15–17
- NOYES, C. F.—*Ministick Packaging—A Further Aid to Satellite Reliability*, **5**, 3, January–February 1966, pp. 2–10

O

- OAKES, J. B., W. J. BILLERBECK, and K. F. READ—*Design of an Ultrastable Oscillator for Satellites*, **2**, 1, September–October 1962, pp. 10–14

- O'BRIEN, V.—*Moving Bubbles, Drops, and Other Fluid Blobs*, **1**, 5, May–June 1962, pp. 2–6
 ——— *Eggs and Other Deformed Spheroids in Stokes Flow*, **4**, 4, March–April 1965, pp. 11–16
 OLSEN, H. L. and H. F. KIRK, JR.—*APL Propulsion Research Laboratory*, **1**, 1, September–October 1961, pp. 13–15
 ——— See BUNT, E. A.

P

- PARKER, J. G. and R. H. SWOPE—*Radiation-Produced Sound*, **5**, 6, July–August 1966, pp. 17–21
 PIEPER, G. F.—*Injun, A Radiation Research Satellite*, **1**, 1, September–October 1961, pp. 3–7
 ——— *The Artificial Radiation Belt*, **2**, 2, November–December 1962, pp. 3–9
 PIETRANGELI, G. J.—*An Airbreathing Mach 7.0 Transport*, **1**, 2, November–December 1961, pp. 2–9

R

- RABENHORST, D. W.—*A Simplified Passive Spacecraft Separation System*, **6**, 2, November–December 1966, pp. 9–17
 RAEZER, S. D.—*The Mass Transient and Plasma Arc Instability*, **4**, 1, September–October 1964, pp. 7–9
 RANDOLPH, J. P., JR.—*New Trends in Telemetry*, **1**, 1, September–October 1961, pp. 8–12
 RANKIN, T. M.—See RIVELLO, R. M.
 READ, K. F.—See OAKES, J. B.
 REESE, W. P.—*The Reese Bros. Dragster*, **4**, 1, September–October 1964, pp. 17–21
 RICH, R. P. and H. SHAW, JR.—*An Application of Digital Filtering*, **4**, 3, January–February 1965, pp. 13–17
 RIVELLO, R. M.—*A Design Method for Optimizing Insulated Structures for Hypersonic Vehicles*, **4**, 5, May–June 1965, pp. 11–16
 ——— and T. M. RANKIN—*A Method of Analysis for Clamped-Free Cylindrical Shells*, **3**, 1, September–October 1963, pp. 19–23

S

- SCHENKEL, F. W.—*Photometric and Optical Considerations in the DODGE Satellite TV Camera Design*, **6**, 5, May–June 1967, pp. 15–19
 SCHROADER, I. H.—*A Scientist and His Hobby—Reflections of a Telescope Maker*, **2**, 6, July–August 1963, pp. 8–14

- SCHULTHEIS, A. C.—*Experimental 3-D Radar Display*, **2**, 1, September–October 1962, pp. 2–9
 SCOTT, D. D. and L. M. SNIDER—*Explosive Lens Flashblindness Protection System*, **5**, 6, July–August 1966, pp. 11–16
 SEAMONE, W.—*Feedback Technique Improves Efficiency of Hydraulic Servos*, **4**, 2, November–December 1964, pp. 12–16
 SHANDOR, M., A. R. STONE, and R. E. WALKER—*Secondary Gas Injection Thrust Vector Control*, **2**, 4, March–April 1963, pp. 2–7
 SHAW, B. W. and C. R. HAAVE—*Frequency Monitoring of VLF Transmissions*, **1**, 5, May–June 1962, pp. 7–11
 ——— See HAAVE, C. R.
 SHAW, H., JR.—See RICH, R. P.
 SNIDER, L. M.—See SCOTT, D. D.

STAFF ARTICLES

- A Correlator of Time Intervals Between Pulses*, **5**, 1, September–October 1965, pp. 14–15
An Electromechanical Time-Code Generator, **3**, 2, November–December 1963, pp. 24–25
APL and the VT Fuze, **2**, 1, September–October 1962, pp. 18–22
Damping Spring for Gravity-Stabilized Satellites, **2**, 2, November–December 1962, pp. 20–21
Four-Channel Video Integrator, **2**, 4, March–April 1963, pp. 20–21
Information Retrieval with a Small Computer, **2**, 4, March–April 1963, pp. 17–19
Intermittent Thermometer, **1**, 4, March–April 1962, p. 19
Miniaturized Satellite Tracking Receiver, **5**, 4, March–April 1966, pp. 19–20
New Coaxial Cable Design, **2**, 6, July–August 1963, pp. 18–19
On Improving the Chance of Hitting the Target, **5**, 1, September–October 1965, pp. 17–18
P. Stewart Macaulay, **5**, 5, May–June 1966, pp. 3–4
Polaris Fluid Magnetic Spring, **2**, 1, September–October 1962, pp. 16–17
Self-Erecting Missile Fin, **4**, 2, November–December 1964, pp. 17–18
Strength of High-Temperature Materials, **6**, 1, September–October 1966, pp. 16–17
System for Checking Hazardous Electrical Circuits, **1**, 2, November–December 1961, pp. 19–20
The Coupling That Went Into Space, **5**, 3, January–February 1966, pp. 16–17
The Mobile Automaton, **2**, 1, September–October 1962, pp. 15–16

Tilted-Disc Device, **1**, 4, March–April 1962, pp. 20–21

Time Synchronization Between Remote Locations, **3**, 4, March–April 1964, pp. 22–23

Transistorized Pyrometer—With and Without Feedback, **2**, 5, May–June 1963, pp. 17–18

Unique Microwave Switches, **1**, 1, September–October 1961, p. 21

Welded Cordwood, Last Step in Conventional Circuits? **1**, 1, September–October 1961, p. 20

STONE, A. M.—See APEL, J. R.

STONE, A. R.—See SHANDOR, M.

SUESS, R. P. and L. B. WECKESSER—*Radome Thermal Design for a Mach 4 Missile*, **3**, 6, July–August 1964, pp. 13–17

SWET, C. J.—*Cornucopia in Space*, **3**, 1, September–October 1963, pp. 13–18

SWOPE, R. H.—See PARKER, J. G.

T

TAYLOR, S. A. and J. L. MACARTHUR—*Digital Pulse Compression Radar Receiver*, **6**, 4, March–April 1967, pp. 2–10

THOMPSON, T.—*Varactor Multipliers*, **4**, 2, November–December 1964, pp. 2–11

——— *The DODGE Television System*, **6**, 5, May–June 1967, pp. 2–8

THOMPSON, W. S.—*Low-Angle Beam Riding Over the Ocean*, **1**, 2, November–December 1961, pp. 10–15

U

UNGER, H. J.—*Development of Infrared Spectrometer for Rocket Gas Analysis*, **1**, 4, March–April 1962, pp. 15–18

V

VETH, G. J.—*Optical Soldering and Microelectronic Interconnections*, **3**, 3, January–February 1964, pp. 9–14

VICARS, R. J.—*Survival in Metropolitan-Area Nuclear Attacks*, **2**, 5, May–June 1963, pp. 18–26

W

WADDELL, M. C.—*A Strategic Force Deterrence Model*, **1**, 1, September–October 1961, pp. 16–19

WALKER, R. E.—See SHANDOR, M.

WECKESSER, L. B.—See SUESS, R. P.

WESTENBERG, A. A.—*Applications of ESR to the Chemical Kinetics of Gases*, **6**, 1, September–October 1966, pp. 9–15

——— and N. DEHAAS—*High-Temperature Gas Transport Property Measurements by Source-in-Flow Method*, **1**, 4, March–April 1962, pp. 2–7

——— See FRISTROM, R. M.

WESTERFIELD, E. E.—*A Dynamic Phase-Difference Measurement System*, **3**, 2, November–December 1963, pp. 13–16

——— and G. WORSLEY—*Translocation by Navigation Satellite*, **5**, 6, July–August 1966, pp. 2–10

WILLIAMS, D. J.—*Albedo Neutron Conference Report*, **3**, 2, November–December 1963, pp. 25–26

——— *Studies of the Earth's Outer Radiation Zone*, **4**, 6, July–August 1965, pp. 10–17

——— and C. O. BOSTROM—*The Earth's Albedo Neutron Flux*, **3**, 4, March–April 1964, pp. 14–21

WILLIS, S. E., JR.—*Thermal Design of Current Navigation Satellites*, **6**, 2, November–December 1966, pp. 18–26

WILSON, W. E., JR. and R. M. FRISTROM—*Radicals in Flames*, **2**, 6, July–August 1963, pp. 2–7.

WORSLEY, G.—See WESTERFIELD, E. E.

Z

ZMUDA, A. J.—*Solar-Terrestrial Disturbances and Solar Protons in July 1961*, **1**, 3, January–February 1962, pp. 16–20

——— *The Auroral Oval*, **6**, 2, November–December 1966, pp. 2–8.

——— See HAAVE, C. R.