

- Baldwin KC, see Duncan DD
 Bankman IN, Rogala EW, and Pavek RE, Laser radar in ballistic missile defense 22(3), 379–393.
 Bankman IN, see Maurer DE
 Barrios AL, see Gauthier LR Jr
 Bateman KL, see York RR
 Belle JS, see Steinberg RA
 Bement DA, Miller JD, Grant PM III, and LaCamera JJ, Naval theater ballistic missile defense 22(3), 275–288.
 Blodgett DW, see Duncan DD
 Bokulic RS, see Willey CE
 Boone BG, see Maurer DE
 Bredland BA, see Kochanski RC
 Brody WR, The quantum physics model of the university in the new millennium: The university without walls 22(1), 67–76.
 Carey GM, see Marcotte FJ
 Chacos AA, Stadter PA, and Devereux WS, Autonomous navigation and crosslink communication systems for space applications 22(2), 135–143.
 Chrysostomou AK, see Pollack AF
 Clemons DE, see Gauthier LR Jr
 Cobb WW, Letter to Dr. Roca 22(3), 206.
 Cole CE, and Hughes AS, AM/FM noise in the target illumination signal for semi-active missiles 22(3), 347–354.
 Conde RF, see Lew AL
 Constantine RW, Air Defense Systems Department: An overview 22(3), 207–214.
 Crawford LJ, see Suter JJ
 Crowe DG, see Schmid ME
 _____, see Shapter BA
 Devereux WS, see Chacos AA
 Dockery GD, see Newkirk MH
 _____, see Rottier JR
 _____, see Sylvester JJ
 Dowen D, see Willey CE
 Duhon CJ, see Sunday DM
 Duncan DD, Baldwin KC, Bodgett DW, Elko MJ, Joseph RI, Mayr MJ, Prendergast DT, Terry DH, Thomas, ME, and Walts SC, Experimental and theoretical assessment of mechanical and optical effects in nonuniformly heated IR windows 22(3), 394–408.
 Eddins CL, see Gauthier LR Jr
 Edwards RT, Field-programmable analog array architecture 22(2), 102–103.
 Elko EC, Howard JW, Kochanski RC, Nguyen TT, and Sanders WM, Rolling Airframe Missile: Development, Test, Evaluation, and Integration 22(4), 573–582.
 Elko MJ, see Duncan DD
 Fernandez FL, DARPA: Into the future 22(1), 29–38.
 Fraeman ME, 1394 serial bus 22(2), 114–115.
 Fraeman ME, see Lew AL
 Frank J, Introduction to programs 22(3), 367–368.
 _____, The science and technology of detect, control, and engage 22(4), 598–599.
 Frazer RK, Hanson JP, Leumas MJ, Ratliff CL, Reinecke OM, and Roe CL, Evolved Sparrow missile program 22(4), 564–572.
 Frostbutter DA, McGrath BE, and Rogér RP, Application of computational fluid dynamics in missile engineering 22(3), 289–301.
 Gauthier LR Jr, Klimek JM, Mattes LA, Eddins CL, Barrios AL, Clemmons DE, and Walsh RF Jr, Blast instrumentation for lethality assessment 22(3), 355–366.
 Gearhart SA, Testing the SM-3 kinetic warhead in the Guidance System Evaluation Laboratory 22(3), 302–310.
 Gehman JZ, see Newkirk MH
 Gemeny SE, see Baer GE
 Genovese AF, The interacting multiple model algorithm for accurate state estimation of maneuvering targets 22(4), 614–623.
 Goldfinger AD, Spacecraft modeling and simulation standards 22(2), 121–124.
 Goldhirsh J, see Rottier JR
 Goldin DS, NASA in the 21st century 22(1), 49–58.
 Grant PM III, see Bement DA
 Gray KM, Transferring APL technology to industry 22(2), 162–167.
 Guo Y, Autonomous solar navigation system 22(2), 119–121.
 Hanson JM Jr, see Frazer RK

AUTHOR INDEX

Johns Hopkins APL Technical Digest
 Volume 22 (2001)

- Agrawal AK, Kopp BA, Luesse MH, and O'Haver KW, Active phased array antenna development for modern shipboard radar systems 22(4), 600–613.
 Allen EB Jr, see Thomas JW
 Antonicelli ME, see Kuehne BE
 Baer GE, and Gemeny SE, Unattended satellite contacts 22(2), 155–161.
 Bailey RJ, see Prengaman RJ
 _____, see Thomas JW

- Harrison GA, see Kuehne BE
 Hepp AF, see Schwartz PD
 Hill SW, see Willey CE
 Howard JW, see Elko EC
 Howser LM, see Kuehne BE
 Huettl B, see Willey CE
 Hughes AS, see Cole CE
 Jackson SA, Science and engineering education of women in the 21st century 22(1), 77–82.
 Jaskulek SE, see Strohbehn K
 Joseph RI, see Duncan DD
 Kester RW, see Steinberg RA
 Kitzman KV, Parametric multispectral IR bulk filtering for theater ballistic missile defense 22(3), 369–378.
 Klein LE, see Steinberg RA
 Klimek JM, see Gauthier LR Jr
 Kochanski RC, and Bredland BA, Use of AN/SLQ-32A(V) electronic support data for ASCM engagement and situational awareness 22(4), 583–587.
 Kochanski RC, see Elko EC
 Konstanzer GC, see Rottier JR
 _____, see Sylvester JJ
 Kopp BA, see Agrawal AK
 Krill JA, Systems engineering of air and missile defenses 22(3), 220–233.
 Kuehne BE, Patterson RA, Schmiedeskamp JE, Harrison GA, Antonucci ME, Howser LM, and Lutz SA, Standard Missile-2 Block IVA analysis and test 22(3), 248–259.
 Kuhns MC, see Thomas JW
 LaCamera JJ, see Bement DA
 Landis MA, Overview of the fire control loop process for Aegis LEAP Intercept 22(4), 436–446.
 Le BQ, see Lew AL
 _____, see Ling SX
 _____, see Schwartz PD
 Leumas MJ, see Frazer RK
 Lew AL, Le BQ, Schwartz PD, Fraeman ME, Conde RF, and Mosher LE, Microsatellites: An enabling technology for government and commercial aerospace applications 22(2), 124–134.
 Lew AL, see Ling SX
 _____, see Schwartz PD
 Lindberg JS, see Thomas JW
 Ling SX, Le BQ, and Lew AL, Evaluating and implementing commercial processes for producing reliable, cost-effective miniaturized space electronics 22(2), 144–154.
 Ling SX, see Schwartz PD
 Luesse MH, see Agrawal AK
 Lundy RT, Guest Editor's introduction 22(3), 203.
 _____, Guest Editor's introduction 22(4), 417–420.
 Lutz SA, see Kuehne BE
 Marable DL, see Thomas JW
 Marcotte FJ, Carey GM, and Tropf WJ, The APL Guidance System Evaluation Laboratory 22(3), 324–332.
 Martin MN, see Strohbehn K
 Mattes LA, see Gauthier LR Jr
 Maurer DE, Rogala EW, Bankman IN, Boone BG, Vogel KK, and Parris C, A low cost gun-launched seeker concept design for naval fire support 22(4), 634–647.
 Mayr MJ, see Duncan DD
 McGrath BE, see Frostbutter DA
 Meyer WE, A beginning or just a change in course? 22(4), 422–424.
 Miller JD, see Bement DA
 Montgomery BG, see Suter JJ
 Montoya M, Standard Missile: A cornerstone of Navy theater air missile defense 22(3), 234–247.
 Moorjani K, Looking back, looking forward 22(1), 3–5.
 _____, In memoriam: Samuel N. Foner (1920–2000) 22(2), 191–193.
 _____, Recognition for the *Digest* 22(2), 97.
 Mosher LE, see Lew AL
 Mullen MG, The Navy in the 21st century, Part I: Surface warfare 22(1), 7–18.
 Muller S, Technology and society in the 21st century 22(1), 83–89.
 Newkirk MH, Gehman JZ, and Dockery GD, Advances in calculating electromagnetic field propagation near the Earth's surface 22(4), 462–472.
 Nguyen TT, see Elko EC
 Nimmo RE, see Reed CLB
 Norcutt LS, Ship self-defense system architecture 22(4), 536–546.
 O'Haver KW, see Agrawal AK
 _____, see Moore CR
 Paige KK, Letter to Dr. Roca 22(4), 421.
 Parris C, see Maurer DE
 Patterson RA, see Kuehne BE
 _____, see Steinberg RA
 Pavek RE, see Bankman IN
 Penn JE, Ka-band MMIC phased array components 22(2), 112–114.
 Peregrino LA, Emerging technologies with commercial potential, 22(2), 101.
 Peri JSJ, Approaches to multisensor data fusion 22(4), 624–633.
 Piszcior MF, see Schwartz PD
 Pollack AF, and Chrysostomou AK, ARTEMIS: A high-fidelity end-to-end TBMD federation 22(4), 507–515.
 Prendergast DT, see Duncan DD
 Prengaman RJ, Wetzel EC, and Bailey RJ, Integrated ship defense 22(4), 523–535.
 Ratliff CL, see Frazer RK
 Reed CLB, and Nimmo RE, Balancing a business operations model for R&D services to both government and industry: Technology transfer for space applications 22(2), 176–184.
 Reed CLB, and Suter JJ, Guest Editors' introduction 22(2), 98–100.
 Reinecke OM, see Frazer RK
 Rempt RP, The Navy in the 21st century, Part II: Theater Air and Missile Defense 22(1), 19–28.
 Rizzuto, see Thomas JW
 Roe CL, see Frazer RK
 Rogala EW, see Bankman IN
 _____, see Maurer DE
 Rogér RP, see Frostbutter DA
 Rogers SB, Assessing the adequacy of ground tests 22(3), 311–323.
 Rottier JR, Rowland JR, Konstanzer GC, Goldhirsh J, and Dockery GD, APL environmental assessment for Navy anti-air warfare 22(4), 447–461.
 Rottier JR, see Sylvester JJ
 Roulette JF, see Thomas JW
 Rowland GC, see Rottier JR
 _____, see Sylvester JJ
 Sanders WM, see Elko EC
 Schmid ME, and Crowe DG, Distributed computer architectures for combat systems 22(4), 488–497.
 Schmiedeskamp JE, see Kuehne BE
 Schulze RC, see Willey CE
 Schwartz PD, Hepp AF, Le BQ, Lew AL, Ling SX, Piszcior MF, Stott DD, Suter JJ, and Williams BD, Integrated power source 22(2), 106–110.
 Schwartz PD, see Lew AL
 Shapter BA, and Crowe DG, JEDSI: Java Enhanced Distributed System Instrumentation 22(4), 498–507.
 Silberman GL, see Thomas JW
 Skinner RE Jr, Transportation in the 21st century 22(1), 39–48.
 Skullney WE, see Willey CE
 Slywczak RA, Server-side Java 22(4), 648–649.
 Stadter PA, see Chacos AA
 Steinberg RA, Kester RW, Klein LE, Belle JS, and Patterson RA, SM-2 Block IVA image-based 6-DOF simulation incorporating IR seeker flight code and online image rendering 22(3), 333–346.
 Stott DD, see Schwartz PD
 Strohbehn K, Martin MN, and Jaskulek SE, Micro digital solar attitude detector 22(2), 104–105.
 Stuckey WD, see Thomas JW
 Sullins GA, Exo-atmospheric intercepts: Bringing new challenges to Standard Missile 22(3), 260–274.
 Sunday DM, and Duhon CJ, A decade of prototype displays 22(4), 428–435.
 Suter JJ, Crawford LJ, Montgomery BG, and Swann WE, Syntronics LLC: APL makes its commercial debut 22(2), 168–175.

- Suter JJ, see Reed CLB
 _____, see Schwartz PD
 Swann WE, see Suter JJ
 Switlick MD, see Thomas JW
 Sylvester JJ, Konstanzer GC, Rottier JR, Dockery GD, and Rowland JR, Aegis anti-air warfare tactical decision aids 22(4), 473–487.
 Terry DH, see Duncan DD
 Thomas JW, Bailey RJ, Stuckey WD, Roulette JF, Silberman GL, Marable DL, Kuhns MC, Rizzuto JM, Lindberg JS, Switlick MD, and Allen EB Jr, SSDS Mk 2 combat system integration 22(4), 547–563.
 Thomas ME, see Duncan DD
 Trimble V, Astrophysics faces the millennium 22(1), 59–66.
 Tropf WJ, see Marcotte FJ
 Turner S, Dilemma of nuclear weapons in the 21st century 22(2), 187–190.
- Vogel KK, see Maurer IN
 Walsh RF Jr, see Gauthier LR Jr
 Walts SC, see Duncan DD
 Wetzel EC, see Prengaman RJ
 Whitley JE Jr, An introduction to SSDS concepts and development 22(4), 516–522.
 Wilkinson JG Jr, APL's contributions to Aegis programs: An overview 22(4), 425–427.
 Willey CE, Bokulic RS, Skullney WE, and Schulze RC, Ka-band hybrid inflatable dish antenna, 22(2), 110–112.
 Willey CE, Huettl B, Dowen D, and Hill SW, Miniature mechanisms tool kit for micro spacecraft 22(2), 115–119.
 Williams BD, see Schwartz PD
 York RR, and Bateman KL, Self-defense test ship remote combat system operation 22(4), 588–597.
 Zinger WH, Bringing science and new technology to bear on the Navy's needs 22(3), 215–219.

SUBJECT INDEX

Johns Hopkins APL Technical Digest
 Volume 22 (2001)

ADVANCED MICROWAVE TECHNOLOGY

Ka-band hybrid inflatable dish antenna 22(2), 110–112. Willey CE, Bokulic RS, Skullney WE, and Schulze RC
 Ka-band MMIC phased array components 22(2), 112–114. Penn JE

AEROSPACE TECHNOLOGY

Microsatellites: An enabling technology for government and commercial aerospace applications 22(2), 124–134. Lew AL, Le BQ, Schwartz PD, Fraeman ME, Conde RF, and Mosher LE

APPLIED RESEARCH

Active phased array antenna development for modern shipboard radar systems 22(4), 600–613. Agrawal AK, Kopp BA, Luesse MH, and O'Haver KW
 Advances in calculating electromagnetic field propagation near the Earth's surface, 22(4), 462–472. Newkirk MH, Gehman JZ, and Dockery GD
 Approaches to multisensor data fusion 22(4), 624–633. Peri JSJ
 DARPA: Into the future 22(1), 29–38. Fernandez FL
 Experimental and theoretical assessment of mechanical and optical effects in nonuniformly heated IR windows 22(3), 394–408. Duncan DD, Baldwin KC, Blodgett DW, Elko MJ, Joseph RI, Mayr MJ, Prendergast DT, Terry DH, Thomas ME, and Walts SC
 Integrated power source 22(2), 106–110. Schwartz PD, Hepp AF, Le BQ, Lew AL, Ling SX, Piszczor MF Jr, Stott DD, Suter JJ, and Williams BD
 Interacting multiple model algorithm for accurate state estimation of maneuvering targets 22(4), 614–623. Genovese AF
 Introduction to programs 22(3), 367–368. Frank J
 Laser radar in ballistic missile defense 22(3), 379–393. Bankman IN, Rogala EW, and Pavek RE
 Low cost gun launched seeker concept design for naval fire support 22(4), 634–647. Maurer DE, Rogala EW, Bankman IN, Boone BG, Vogel KK, and Parris C
 Parametric multispectral infrared bulk filtering for theater ballistic missile defense 22(3), 369–378. Kitzman KV
 Science and technology of detect, control, and engage 22(4), 598–599. Frank J

ATMOSPHERIC ELECTROMAGNETIC PROPAGATION

Advances in calculating electromagnetic field propagation near the Earth's surface 22(4), 462–472. Newkirk MH, Gehman JZ, and Dockery GD

BALLISTIC MISSILE DEFENSE

ARTEMIS: A high-fidelity end-to-end TBMD federation 22(4), 507–515. Pollack AF, and Chrysostomou AK
 Laser radar in ballistic missile defense 22(3), 379–393. Bankman IN, Rogala EW, and Pavek RE
 Naval theater ballistic missile defense 22(3), 275–288. Bement DA, Miller JD, Grant PM III, and LaCamera JJ
 Parametric multispectral infrared bulk filtering for theater ballistic missile defense 22(3), 369–378. Kitzman KV

BASIC SCIENCE

Astrophysics faces the millennium 22(1), 59–66. Trimble V

BOOK REVIEWS

Server-side Java 22(4), 648–649. Slywczak RA

COMBAT SYSTEMS

Active phased array antenna development for modern shipboard radar systems 22(4), 600–613. Agrawal AK, Kopp BA, Luesse MH, and O'Haver KW
 Advances in calculating electromagnetic field propagation near the Earth's surface, 22(4), 462–472. Newkirk MH, Gehman JZ, and Dockery GD

Aegis anti-air warfare tactical decision aids 22(4), 473–487. Sylvester JJ, Konstanzer GC, Rottier JR, Dockery GD, and Rowland JR
APL environmental assessment for Navy anti-air warfare 22(4), 447–461. Rottier JR, Rowland JR, Konstanzer GC, Goldhirsh J, and Dockery GD
APL's contributions to Aegis programs: An overview 22(4), 425–427. Wilkinson JG Jr
Approaches to multisensor data fusion 22(4), 624–633. Peri JSJ
ARTEMIS: A high-fidelity end-to-end TBMD federation 22(4), 507–515. Pollack AF, and Chrysostomou AK
Beginning or just a change? 22(4), 422–424. Meyer WE
Decade of prototype displays 22(4), 428–435. Sunday DM, and Duhon CJ
Distributed computer architectures for combat systems 22(4), 488–497. Schmid ME, and Crowe DG
Evolved Seasparrow missile program 22(4), 564–572. Frazer RK, Hanson JM, Leumas MJ, Ratliff CL, Reinecke OM, and Roe CL
Guest editor's introduction 22(3), 203. Lundy RT
Guest editor's introduction 22(4), 417–420. Lundy RT
Integrated ship defense 22(4), 523–535. Prengaman RJ, Wetzlar EC, and Bailey RJ
Interacting multiple model algorithm for accurate state estimation of maneuvering targets 22(4), 614–623. Genovese AF
Introduction to SSDS concepts and development 22(4), 516–522. Whitley JE Jr
JEDSI: Java Enhanced Distribution System Instrumentation 22(4), 498–507. Shapter BA, and Crowe DG
Letter to Dr. Roca 22(4), 421. Paige KK
Low cost gun launched seeker concept design for naval fire support 22(4), 634–647. Maurer DE, Rogala EW, Bankman IN, Boone BG, Vogel KK, and Parris C
Navy in the 21st century, Part I: Surface warfare 22(1), 7–18. Mullen MG
Navy in the 21st century, Part II: Theater air and missile defense 22(1), 19–28. Rempt RP
Overview of the fire control loop process for Aegis LEAP intercept 22(4), 436–446. Landis MA
Rolling Airframe Missile: Development, test, evaluation, and integration 22(4), 573–582. Elko EC, Howard JW, Kochanski RC, Nguyen TT, and Sanders WM
Science and technology of detect, control, and engage 22(4), 598–599. Frank J
Self-defense test ship remote combat system operation 22(4), 588–597. York RR, and Bateman KL
Ship self-defense system architecture 22(4), 536–546. Norcutt LS
SSDS Mk 2 combat system integration 22(4), 547–563. Thomas JW, Bailey RJ, Stuckey WD, Roulette JF, Silberman GL, Marable DL, Kuhns MC, Rizzuto JM, Lindberg JS, Switlick MD, and Allen EB Jr
Use of AN/SLQ-32A(V) electronic support data for ASCM engagement and situational awareness 22(4), 583–587. Kochanski RC, and Bredland BA

COMPUTER ARCHITECTURE

Distributed computer architectures for combat systems 22(4), 488–497. Schmid ME, and Crowe DG

COMPUTER SCIENCE AND SYSTEMS

Server-side Java 22(4), 648–649. Slywczak RA

DEVELOPMENT

DARPA: Into the future 22(1), 29–38. Fernandez FL

EDUCATION

Quantum physics model of the university in the new millennium: The university without walls 22(1), 67–76. Brody WR
Science and engineering education of women in the 21st century 22(1), 77–82. Jackson SA
Technology and society in the 21st century 22(1), 83–89. Muller S

FLEET DEFENSE

Navy in the 21st century, Part I: Surface warfare 22(1), 7–18. Mullen MG
Navy in the 21st century, Part II: Theater air and missile defense 22(1), 19–28. Rempt RP

HISTORY

Letter to Dr. Roca 22(3), 206. Cobb WW
Letter to Dr. Roca 22(4), 421. Paige KK
Looking back, looking forward 22(1), 3–7. Moorjani K
Technology and society in the 21st century 22(1), 83–89. Muller S

HISTORY OF TECHNOLOGY

APL's contributions to Aegis programs: An overview 22(4), 425–427. Wilkinson JG Jr

IN MEMORIAM

In memoriam: Samuel N. Foner (1920–2000) 22(2), 191–194. Moorjani K

INFORMATION SCIENCE AND TECHNOLOGY

Server-side Java 22(4), 648–649 Slywczak RA

INSTRUMENTATION

JEDSI: Java Enhanced Distribution System Instrumentation 22(4), 498–507. Shapter BA, and Crowe DG

MILLENNIAL CHALLENGES

- Astrophysics faces the millennium 22(1), 59–66. Trimble V
DARPA: Into the future 22(1), 29–38. Fernandez FL
Dilemma of nuclear weapons in the 21st century 22(2), 185–190. Turner S
Looking back, looking forward 22(1), 3–7. Moorjani K
NASA in the 21st century 22(1), 49–58. Goldin DS
Navy in the 21st century, Part I: Surface warfare 22(1), 7–18. Mullen MG
Navy in the 21st century, Part II: Theater air and missile defense 22(1), 19–28. Rempt RP
Quantum physics model of the university in the new millennium: The university without walls 22(1), 67–76. Brody WR
Science and engineering education of women in the 21st century 22(1), 77–82. Jackson SA
Technology and society in the 21st century 22(1), 83–89. Muller S
Transportation in the 21st century 22(1), 39–48. Skinner RE Jr

MISSILE SYSTEMS AND TECHNOLOGY

- Air Defense Systems Department: An overview 22(3), 207–214. Constantine RW
AM/FM noise in the target illumination signal for semi-active missiles 22(3), 347–354. Cole CE, and Hughes AS
APL Guidance System Evaluation Laboratory 22(3), 324–332. Marcotte FJ, Carey GM, and Tropf WJ
Application of computational fluid dynamics in missile engineering 22(3), 289–301. Frostbutter DA, McGrath BE, and Rogér RP
Assessing the adequacy of ground tests 22(3), 311–323. Rogers SB
Blast instrumentation for lethality assessment 22(3), 355–366. Gauthier LR Jr, Klimek JM, Mattes LA, Eddins CL, Barrios AL, Clemons DE, and Walsh RF Jr
Bringing science and technology to bear on the Navy's needs 22(3), 215–219. Zinger WH
Evolved Seaspark missile program 22(4), 564–572. Frazer RK, Hanson JM, Leumas MJ, Ratliff CL, Reinecke OM, and Roe CL
Exo-atmospheric intercepts: Bringing new challenges to Standard Missile 22(3), 260–274. Sullins GA
Experimental and theoretical assessment of mechanical and optical effects in nonuniformly heated IR windows 22(3), 394–408. Duncan DD, Baldwin KC, Blodgett DW, Elko MJ, Joseph RI, Mayr MJ, Prendergast DT, Terry DH, Thomas ME, and Walts SC
Guest editor's introduction 22(3), 203. Lundy RT
Guest editor's introduction 22(4), 417–420. Lundy RT
Introduction to programs 22(3), 367–368. Frank J
Laser radar in ballistic missile defense 22(3), 379–393. Bankman IN, Rogala EW, and Pavek RE
Letter to Dr. Roca 22(3), 206. Cobb WW
Naval theater ballistic missile defense 22(3), 275–288. Bement DA, Miller JD, Grant PM III, and LaCamera JJ
Navy in the 21st century, Part I: Surface warfare 22(1), 7–18. Mullen MG
Parametric multispectral infrared bulk filtering for theater ballistic missile defense 22(3), 369–378. Kitzman KV
Rolling Airframe Missile: Development, test, evaluation, and integration 22(4), 573–582. Elko EC, Howard JW, Kochanski RC, Nguyen TT, and Sanders WM
SM-2 Block IVA image-based 6-DOF simulation incorporating IR seeker flight code and online image rendering 22(3), 333–346. Steinberg RA, Kester RW, Klein LE, Belle JS, and Patterson RA
Standard Missile: A cornerstone of Navy theater air missile defense 22(3), 234–247. Montoya M
Standard Missile-2 Block IVA analysis and test 22(3), 248–259. Kuehne BE, Patterson RA, Schmiedeskamp JE, Harrison GA, Antonicelli ME, Howser LM, and Lutz SA
Systems engineering of air and missile defenses 22(3), 220–233. Krill JA
Testing the SM-3 kinetic warhead in the Guidance System Evaluation Laboratory, 22(3), 302–310. Gearhart SA

OPTICS

- Experimental and theoretical assessment of mechanical and optical effects in nonuniformly heated IR windows 22(3), 394–408. Duncan DD, Baldwin KC, Blodgett DW, Elko MJ, Joseph RI, Mayr MJ, Prendergast DT, Terry DH, Thomas ME, and Walts SC

OTHER TOPICS

- Recognition for the Digest 22(2), 97. Moorjani K

PATENTS

- 22(2), 199.

PROGRAMS

- Advances in calculating electromagnetic field propagation near the Earth's surface, 22(4), 462–472. Newkirk MH, Gehman JZ, and Dockery GD
Aegis anti-air warfare tactical decision aids 22(4), 473–487. Sylvester JJ, Konstanzer GC, Rottier JR, Dockery GD, and Rowland JR
APL environmental assessment for Navy anti-air warfare 22(4), 447–461. Rottier JR, Rowland JR, Konstanzer GC, Goldhirsh J, and Dockery GD
APL's contributions to Aegis programs: An overview 22(4), 425–427. Wilkinson JG Jr
ARTEMIS: A high-fidelity end-to-end TBMD federation 22(4), 507–515. Pollack AF, and Chrysostomou AK
Decade of prototype displays 22(4), 428–435. Sunday DM, and Duhon CJ
Distributed computer architectures for combat systems 22(4), 488–497. Schmid ME, and Crowe DG
Evolved Seaspark missile program 22(4), 564–572. Frazer RK, Hanson JM, Leumas MJ, Ratliff CL, Reinecke OM, and Roe CL
Exo-atmospheric intercepts: Bringing new challenges to Standard Missile 22(3), 260–274. Sullins GA
Introduction to programs 22(3), 367–368. Frank J
JEDSI: Java Enhanced Distribution System Instrumentation 22(4), 498–507. Shapter BA, and Crowe DG
Overview of the fire control loop process for Aegis LEAP Intercept 22(4), 436–446. Landis MA

Standard Missile: A cornerstone of Navy theater air missile defense 22(3), 234–247. Montoya M
Standard Missile-2 Block IVA analysis and test 22(3), 248–259. Kuehne BE, Patterson RA, Schmiedeskamp JE, Harrison GA, Antonicelli ME, Howser LM, and Lutz SA

PUBLICATIONS, PRESENTATIONS, AND COLLOQUIA

22(1), 90.
22(2), 194.
22(3), 409.
22(4), 650.

SHIP SELF-DEFENSE SYSTEMS

Evolved Seasparrow missile program 22(4), 564–572. Frazer RK, Hanson JM, Leumas MJ, Ratliff CL, Reinecke OM, and Roe CL
Integrated ship defense 22(4), 523–535. Prengaman RJ, Wetzel EC, and Bailey RJ
Introduction to SSDS concepts and development 22(4), 516–522. Whitley JE Jr
Rolling Airframe Missile: Development, Test, Evaluation, and Integration 22(4), 573–582. Elko EC, Howard, JW, Kochanski RC, Nguyen TT, and Sanders WM
Self-defense test ship remote combat system operation 22(4), 588–597. York RR, and Bateman KL
Ship self-defense system architecture 22(4), 536–546. Norcutt LS
SSDS Mk 2 combat system integration 22(4), 547–563. Thomas JW, Bailey RJ, Stuckey WD, Roulette JF, Silberman GL, Marable DL, Kuhns MC, Rizzuto JM, Lindberg JS, Switlick MD, and Allen EB Jr
Use of AN/SLQ-32A(V) electronic support data for ASCM engagement and situational awareness 22(4), 583–587. Kochanski RC, and Bredland BA

SPACE SCIENCE AND TECHNOLOGY

1394 serial bus 22(2), 114–115. Fraeman ME
Autonomous navigation and crosslink communication systems for space applications 22(2), 135–144. Chacos AA, Stadter PA, and Devereux WS
Autonomous solar navigation system 22(2), 119–121. Guo Y
Balancing a business operations model for R&D services to both government and industry: Technology transfer for space applications 22(2), 176–184. Reed CLB, and Nimmo RE
Emerging technologies with commercial potential 22(2), 101. Peregrino LA
Evaluating and implementing commercial processes for producing reliable, cost-effective miniaturized space electronics 22(2), 144–154. Ling SX, Le BQ, and Lew AL
Field programmable analog array architecture 22(2), 101–104. Edwards RT
Guest editors' introduction 22(2), 98. Reed CLB, and Suter JJ
Integrated power source 22(2), 106–110. Schwartz PD, Hepp AF, Le BQ, Lew AL, Ling SX, Piszczor MF Jr, Stott DD, Suter JJ, and Williams BD
Ka-band hybrid inflatable dish antenna 22(2), 110–112. Willey CE, Bokulic RS, Skullney WE, and Schulze RC
Ka-band MMIC phased array components 22(2), 112–114. Penn JE
Micro digital solar attitude detector 22(2), 104–106. Strohbehn K, Martin MN, and Jaskulek SE
Microsatellites: An enabling technology for government and commercial aerospace applications 22(2), 124–134. Lew AL, Le BQ, Schwartz PD, Fraeman ME, Conde RF, and Mosher LE
Miniature mechanisms tool kit for micro spacecraft 22(2), 115–119. Willey CE, Huettl B, Dowen D, and Hill SW
NASA in the 21st century 22(1), 49–58. Goldin DS
Spacecraft modeling and simulation standards 22(2), 121–124. Goldfinger AD
Unattended satellite contacts 22(2), 155–161. Baer GE, and Gemeny SE

SYSTEMS ENGINEERING

Systems engineering of air and missile defenses 22(3), 220–233. Krill JA

SYSTEMS INTEGRATION

SSDS Mk 2 combat system integration 22(4), 547–563. Thomas JW, Bailey RJ, Stuckey WD, Roulette JF, Silberman GL, Marable DL, Kuhns MC, Rizzuto JM, Lindberg JS, Switlick MD, and Allen EB Jr

TECHNOLOGY DEVELOPMENT

Bringing science and technology to bear on the Navy's needs 22(3), 215–219. Zinger WH
Guest editors' introduction 22(2), 98. Reed CLB, and Suter JJ

TECHNOLOGY TRANSFER

1394 serial bus 22(2), 114–115. Fraeman ME
Autonomous navigation and crosslink communication systems for space applications 22(2), 135–144. Chacos AA, Stadter PA, and Devereux WS
Autonomous solar navigation system 22(2), 119–121. Guo Y
Balancing a business operations model for R&D services to both government and industry: Technology transfer for space applications 22(2), 176–184. Reed CLB, and Nimmo RE
Emerging technologies with commercial potential 22(2), 101. Peregrino LA
Evaluating and implementing commercial processes for producing reliable, cost-effective miniaturized space electronics 22(2), 144–154. Ling SX, Le BQ, and Lew AL
Field programmable analog array architecture 22(2), 101–104. Edwards RT
Integrated power source 22(2), 106–110. Schwartz PD, Hepp AF, Le BQ, Lew AL, Ling SX, Piszczor MF Jr, Stott DD, Suter JJ, and Williams BD
Guest editors' introduction 22(2), 98. Reed CLB, and Suter JJ

Ka-band hybrid inflatable dish antenna 22(2), 110–112. Willey CE, Bokulic RS, Skullney WE, and Schulze RC
Ka-band MMIC phased array components 22(2), 112–114. Penn JE
Micro digital solar attitude detector 22(2), 104–106. Strohbehn K, Martin MN, and Jaskulek SE
Microsatellites: An enabling technology for government and commercial aerospace applications 22(2), 124–134. Lew AL, Le BQ, Schwartz PD, Fraeman ME, Conde RF, and Mosher LE
Miniature mechanisms tool kit for micro spacecraft 22(2), 115–119. Willey CE, Huettl B, Dowen D, and Hill SW
Spacecraft modeling and simulation standards 22(2), 121–124. Goldfinger AD
Syntomics LLC: APL-developed technology makes its commercial debut 22(2), 168–175. Suter JJ
Transferring APL technology to industry 22(2), 162–167. Gray KM
Unattended satellite contacts 22(2), 155–161. Baer GE, and Gemeny SE

TRANSPORTATION

Transportation in the 21st century 22(1), 39–48. Skinner RE