

UNCLASSIFIED

Page determined to be Unclassified  
Reviewed Ch RDD, WHS  
Date: 15 MAY 2008  
IAW EO 12958 Section 3.5

## Cumulative Index, 1979-1983

### *Journal of Defense Research, Volumes 11 through 15*

The following index shows the articles and authors that appeared in the regular and special issues of the *Journal of Defense Research* during the publishing years 1979, 1980, 1981, 1982, and 1983, with the articles being listed by principal author, by title, and by permuted title. By definition, the principal authors in this list are taken to be the persons whose names are shown first in the articles' title blocks. Coauthors' names are shown in their alphabetical order and are referred to the listing under the principal author's name. In the permuted title list, word order is rearranged to present an alphabetical listing of key words appearing in the titles. A small supply of overrun copies of each issue is available to subscribers who wish additional copies. *Reproduction copies can also be obtained in the usual way of receiving defense documents: by contacting the Defense Technical Information Center (DTIC), Cameron Station, Alexandria, Virginia 22314.* The DTIC call numbers that have been assigned to individual issues of Volumes 11 through 15 and the special issues appearing during the years 1979 through 1983 are:

Volume 11, Number 1, pages 1-106: AD C018-400  
Volume 11, Number 2, pages 107-288: AD C018-977  
Volume 11, Number 3, pages 289-368: AD C020-185  
Volume 11, Number 4, pages 369-478: AD C020-867  
Special Issue 79-1, Armored Fighting Vehicles: AD C021-067  
Volume 12, Number 1, pages 1-97: AD C021-819  
Volume 12, Number 2, pages 99-207: AD C022-566  
Volume 12, Number 3, pages 209-306: AD C023-202  
Volume 12, Number 4, pages 307-413: AD C024-177  
Volume 13, Number 1, pages 1-136: AD C025-113  
Volume 13, Number 2, pages 137-284: AD C026-588  
Volume 13, Number 3, pages 285-377: AD C026-810  
Volume 13, Number 4, pages 379-499: AD C027-910  
Special Issue 81-1, Command, Control, and Communications Countermeasures: AD C026-518  
Special Issue 81-2, Air Defense Against Cruise Missiles: AD C027-144  
Volume 14, Number 1, pages 1-85: AD C029-570  
Volume 14, Number 2, pages 87-171: AD C952-187  
Volume 14, Number 3, pages 173-218: AD C031-254  
Volume 14, Number 4, pages 219-311: AD C032-738  
Special Issue 82-1, Adaptive Antennas: AD C028-913  
Special Issue 82-2, Space-Based Radar: AD C030-184

UNCLASSIFIED

JDR 191

08-M-1076 R-1

UNCLASSIFIED

Special Issue 82-3, Warning and Defense Against Strategic Attack:  
 AD C952-073

Volume 15, Number 1, pages 1-50: AD C033-369

Volume 15, Number 2, pages 51-134: AD C033-511

Volume 15, Numbers 3&4, pages 135-208: (Not yet assigned)

Articles appearing in special issues are noted in boldface type in the various entries.

A separately published *Cumulative Index (U), Volumes 1 Through 10, 1969-1978* was distributed as a supplement to Volume 11, Number 4 of the Journal. A limited number of original copies of that cumulative index are available to persons who are not on the Journal's regular distribution list through request to Administrative Services Office, Defense Advanced Research Projects Agency, 1400 Wilson Boulevard, Arlington, Virginia 22209. Since the cumulative list is classified at the level of Confidential, requesters must possess the necessary security clearances.

AUTHORS

	<u>Vol</u>	<u>Page</u>		
Adams, R. L. <i>Development of an unconventional reentry configuration for decay applications</i> -----	12	24		
Adams, R. N., Bessette, L. A., Brodsky, W. G., Horowitz, L. L., Sencer, K. D. <i>Application of spectrum spreading and main-beam antenna nulling to wideband data reception (in Adaptive Antennas)</i> -----	82-1	187		
Akins, A. J. (see Minceo, J. A.)				
Aldridge, E. C. (see Augustine, N. R.)				
Alexander, A. J. <i>The character and style of Soviet weapons design</i> -----	12	319		
Arbabi, M., Gutierrez, L. T., Kocher, D. F. <i>A simulation model of the crisis action system</i> ---	13	90		
Augustine, N. R., Aldridge, E. C., Poole, W. <i>Defense against the U.S. cruise missile</i> -----	11	1		
Babert, D. M. <i>XM-1, main battle tank of the future (in Armored Fighting Vehicles)</i> -----	79-1	93		
Bagby, F. L., Bradley, C. D. <i>Advanced systems concepts (in Armored Fighting Vehicles)</i> -----	79-1	245		
Baker, P. J. (see Goldstein, R.)				
Barnes, M. J. (see Lect. H. P.)				
Bauer, E., Gilmore, F. R., Mitchell, H. J. <i>Late-time optical effects of nuclear dust clouds</i> ---	75	51		
Bavaro, L. T. (see Strom, B. T.)				
Bayer, C. T., Winter, W. H. <i>Overview of ballistic missile defense (in Warning and Defense Against Strategic Attack)</i> -----	82-3	163		
Baykus, J. K., Hufjleston, C. M., Straw, D. C. <i>Charged particle beam concepts</i> -----	14	87		
Boyliss, E. T., Knittel, G. H. <i>Hemispheric-coverage radar—a new, highly mobile radar concept for artillery location and air surveillance</i> -----	12	364		
Bekry, I. (see Kochendorfer, F. D.)				
Berenson, P. J., Henry J. H. <i>The number of new and improved U. S. and USSR weapon systems introduced annually 1960-1981</i> -----			14	154
Bernard, A. D. <i>Manned-interceptor defense problems (in Air Defense Against Cruise Missiles)</i> -----	81-2	58		
<i>Unconventional defenses (in Air Defense Against Cruise Missiles)</i> -----	81-2	67		
Bernapelle, A. H., Thomas, C. M., Glaser, G. <i>Future satellite-based infrared systems (in Warning and Defense Against Strategic Attack)</i> -----	82-2	111		
Bessette, L. A. (see Adams, R. N.)				
Beuch, J. U., Cameron, A. G. <i>Jam-resistant secure voice communication (JRSVC)</i> -----	12	149		
Blasc, E. F., Gogolewski, R. P., Vidu, A. <i>New initiatives in conventional munitions</i> -----	11	409		
Blocher, W. (see Schlessinger, M.)				
Binnstein, R. B. (see McCrery, J. F.)				
Boha, C. L., Manz, B. J., Cooper, A. F. <i>Methodologies for analyzing laser systems in a space defense role</i> -----	12	80		
Bradley, C. D. (see Bagby, F. L.)				
Bradley, R. W. <i>Communications jamming (in Command, Control, and Communications Countermeasures)</i> -----	81-1	225		
Briggs, D. L. <i>Some cruise missile history: performance of the Athos defenses against the V-1 (appendix in Air Defense Against Cruise Missiles)</i> -----	81-2	72		
Briggs, D. L., Francois, R. E., Jr. <i>Radar clutter effects (in Air Defense Against Cruise Missiles)</i> -----	81-2	33		
Brodsky, W. G. (see Adams, R. N.)				
Brocy, M. A. (see Cerino, A. T.)				
Brookner, E. <i>Ground verification of space-based radar's ability to see aircraft and ALCM targets in land clutter (in Space-Based Radar)</i> -----	82-2	274		
<i>Verification of the adaptive nulling achievable (in Space-Based Radar) (Technical Note)</i> -----	82-2	227		
Brower, K. S. (see Kehoe, J. W.)				
Brown, B. K. (see O'Malley, J. F.)				
Brown, W. M. (see Digenis, C. J.)				

UNCLASSIFIED

	Vol	Page	Description of the cruise missile detection technology program (in Air Defense Against Cruise Missiles) -----	81-2	7
Brundige, D. G (see Schlessinger, M.)			Overview of the technical defense problems (in Air Defense Against Cruise Missiles) -----	81-2	3
Buehrle, W. E. (see Menckle, C. J.)			Dennis, P. S (see Cerino, A. T.)		
Burdick, C. D.			Despain, A (see MacDonald, G.)		
BELCAD as a counter-C <sup>3</sup> measure (in Command, Control, and Communications Countermeasures) -----	81-1	285	Digenis, C. J., Brown, W. M., Gronroos, E. O		
Burns, B. P.			New developments in ABM electronic countermeasures -----	12	1
Recent tank gun technology (in Armored Fighting Vehicles) -----	79-1	124	Dodson, P. O. (see O'Hare, W. S.)		
Byington, L. E. (see Strom, B. T.)			Domina, J. S. (see Grotte, J. H.)		
Cameron, A. G. (see Busch, J. U.)			Douglass, J. D., Jr., Hoeber, A. M		
Carayannopoulos, G. L. (see Dyak, C. P.)			The conventional-nuclear interface in Soviet strategy -----	12	43
Caruthers, J. W.			Douglass, J. D., Ji, Shannon, J. A.		
Soviet digital signal processing research and technologies which have application to sonar -----	12	333	Automation in Soviet troop control -----	11	332
Cerino, A. T., Brody, M. A.			Dreft, S. D (see Cornwall, J. M.)		
Adaptive controlled phased array antenna for protection of ASW data links (in Adaptive Asdicmas) -----	82-1	198	Dyack, C. P., Longaker, P. R., Carayannopoulos, G. L.		
Cerino, A. T., Dennis, P. S.			Aerosols as an exoatmospheric optical countermeasure -----	13	363
HF adaptive antenna flight test (in Adaptive Antennas) -----	82-1	116	Dyson, F. J. (see Cornwall, J. M.; also see MacDonald, G.)		
Clapp, R. E. (see Southall, H. L.)			Edden, F. E		
Comfort, C. L., Gering, M.			Distributed jamming systems (DJS) (in Command, Control, and Communications Countermeasures) -----	81-1	188
A pilot's view of precision guided munitions -----	14	209	Eichelberger, R. J.		
Cooper, A. F. (see Bohn, C. L.)			Inertive high explosives and propellants -----	13	469
Cornwall, J. M., Dreft, S. D., Dyson, F. J., Foley, H. M., Novick, R., Ruderman, M. A., Sullivan, J. D.			Tank armor evolution (in Armored Fighting Vehicles) -----	79-1	115
Long wavelength infrared technology for ballistic missile defense -----	15	1	Ekaueh, E (see Francis, W. L.)		
Cosette, E. E. (see Cruskie, J. J.)			Eitzinger, J. N., Jr. (see Zulch, D. I.)		
Council, W. A., Swartz, E. E.			Farran, R. A. (see Strom, B. T.)		
Signal acquisition system for C <sup>3</sup> countermeasures (in Command, Control, and Communications Countermeasures) -----	81-1	107	Federhen, H. M., Muehe, C. E., Spertz, S.		
Covington, T. G., McDonald, D. F.			The application of netted radars in support of tactical operations -----	12	209
Advanced technology test beds and field test programs for armored fighting vehicles (in Armored Fighting Vehicles) -----	79-1	222	Fielding, J. C.		
Cranford, C. R. (see Yeager, M. R.)			An infrared SAM defense possibility (in Air Defense Against Cruise Missiles) -----	81-2	49
Cruskie, J. J., Cosette, E. E., Glickstein, I. S.			Finn, H. M., Mallett, J. D.		
Emitter location systems (in Command, Control, and Communications Countermeasures) -----	81-1	116	Digital sidelobe canceller—an analysis of field test results -----	82-1	139
Curry, G. R.			Fisher, (see Henry, R. R.)		
Advanced weapon concepts for cruise missile defense -----	13	35	Fisher, J., Langley, W. M., Griffin, J. B., Lemnos, W. Z.		
Curry, S. J. (see Strom, B. T.)			Exoatmospheric ballistic missile defense (in Warning and Defense Against Strategic Attack) -----	82-3	183
Davis, W. O.			Flair, S. (see MacDonald, G.)		
Exoatmospheric long-wavelength infrared sensors -----	14	219	Florence, G. P.		
Decker, O. C., Petrick, E. N.			The escort/standoff and strategic applications of C <sup>3</sup> countermeasures (in Command, Control, and Communications Countermeasures) -----	81-1	134
Component development for future combat vehicles (in Armored Fighting Vehicles) -----	79-1	169	W., Jr. (see Mayhan, J. T.)		
Deitchman, S. J.			M. (see Cornwall, J. M.)		
Antiarmor systems in NATO: planning and prospects -----	12	284	Foley, H. M., Key, E. L., Miller, R. I., Sear, R. H.		
Dehany, J. R., Meeks, M. L.			The engine of the AN/FPS-95 OTH radar -----	11	289
Radar propagation effects (in Air Defense Against Cruise Missiles) -----	81-2	19	Francis, W. L., Ekaueh, E.		
Dehany, W. P.			Electro-optical pods for single-seat night attack -----	13	1

UNCLASSIFIED

	Vol	Page		
Francous, P. F., Jr <i>Terrain masking effects (in Air Defense Against Cruise Missiles)</i> .....	81-2	9	Guttman, P. T. (see Solheim, D. M.)	
(also see Briggs, D. L.)			Hadley, H. W. (see Gleich, J. I.)	
Frederickson, D. N., Villa, A. <i>A comparison of U.S. and Soviet tanks and tank-related developments (in Armored Fighting Vehicles)</i> .....	79-1	15	Hahn, W. D., Parry, S. H., Selivick, M. D., West, W. D.	
French, J. A. <i>Terminally guided submissiles technology and applications</i> .....	11	252	<i>Contributions of agility to survivability (in Armored Fighting Vehicles)</i> .....	79-1 141
Friedman, G. J. <i>The effective use of advanced technology for defense</i> .....	14	39	Hall, J. F. <i>Copperhead: the evolution of a revolutionary weapon</i> .....	13 184
Frostic, F. L. <i>Quality versus quantity in tactical fighter forces</i> .....	13	285	Hanfling, J. D. <i>Space-based radar antenna design verification study (in Space-Based Radar)</i> .....	82-2 261
Gallegro, G. F., Simpson, W. E., Jacobson, G. D. <i>Interim results of the phased array radiating membrane development program (in Space-Based Radar)</i> .....	82-2	52	Hanfling, J. D., Herrick, B. R. <i>Low-sidelobe space-fed lens antenna transform feed study (in Space-Based Radar)</i> .....	82-2 148
Garbano, J. (see Jordan, L.)			Happer, W. (see MacDonald, G.)	
Garbano, J. R. <i>Counterair mission analysis for the advanced tactical fighter</i> .....	14	173	Hawkins, W. C., Pochtmann, H. C., Shields, M. W. <i>Development of active popup lens antenna (in Space-Based Radar)</i> .....	82-2 95
Gardner, K. L. (see Lect., H. P.)			Heebner, D. R. <i>On countering Soviet Navy command, control, and communications (in Command, Control, and Communications Countermeasures)</i> .....	81-1 47
Gaulding, S. N. <i>The microtower processor: a programmable digital signal processor technology for remote ASW surveillance applications</i> .....	13	352	Henderson, C. <i>Exoatmospheric laser intercept system concept study</i> .....	15 147
Gering, M. (see Comfort, C. L.)			Hennessey, F. T. (see Strom, B. T.)	
Gibson, R. G. (see Strom, B. T.)			Henry, J. H. (see Bercuson, P. J.)	
Gilmore, F. R. (see Bauer, S.)			Henry, R. R., Fisher, J. G. <i>A single-layer microstrip membrane for space radar (in Space-Based Radar)</i> .....	82-2 88
Glaser, G. (see Bertapelle, A. H.)			Herrick, B. R. (see Hanfling, J. D.)	
Gleich, J. I., Hadley, H. W. <i>Adaptive array considerations for TDMA SATCOM uplink (in Adaptive Antennas)</i> .....	82-1	25	Hinman, R. D. <i>A comparison of TACOM II simulation model results with Seek Talk advanced development model tests</i> .....	15 36
Glickstein, I. S. (see Crankie, J. J.)			(also see Mineo, J. A.)	
Goddard, S., Lehner, C. R. <i>DARPA liquid propellant gun programs (in Armored Fighting Vehicles)</i> .....	79-1	195	Hocher, A. M. (see Douglass, J. D., Jr.)	
Gogolewski, R. P. (see Blase, E. F.)			Horowitz, L. L. (see Adams, R. N.)	
Goldberger, M. (see MacDonald, G.)			Huddleston, C. M. (see Bayless, J. R.)	
Goldstein, R. (see Schlessinger, M.)			Hunt, I. A., Jr. (see Starry, D. A.)	
Goldstein, R., Baker, P. J. <i>The Defense Support Program (in Warning and Defense Against Strategic Attack)</i> .....	82-3	98	Hunter, M. W., II <i>Space laser battle station</i> .....	74 248
Gragg, B. B. <i>Bomber force launch survivability</i> .....	11	438	Hwang, Y. (see Master, A. J.)	
Grauer, J. A. <i>The role and nature of adaptive antennas in ECCM (in Adaptive Antennas)</i> .....	82-1	1	Inouye, G. T. (see Pike, C. P.)	
(also see Luvera, C. J.)			Isaacs, D. (see Mineo, J. A.)	
Greenwood, D. P. (see Primmerman, C. A.)			Jacobs, J. F., Page, W. Jr. <i>Counter mission analysis of Warsaw Pact C<sup>3</sup> (in Command, Control, and Communications Countermeasures)</i> .....	81-1 33
Griffin, J. B. (see Fisher, J. R.)			Jacobson, G. D. (see Gallegro, G. F.)	
Grantroos, E. O. (see Dupuis, C. J.)			Jacobs, R. W. <i>Protecting our tactical C<sup>3</sup> systems from attack and exploitation (in Command, Control, and Communications Countermeasures)</i> .....	81-1 333
Grotte, J. H., Doan, J. S., Jakobovits, R. H., Schwartz, E. I. <i>Maritime nuclear war and naval force structure considerations</i> .....	13	84	Jakobovits, R. H. (see Grotte, J. H.)	
Gutierrez, L. T. (see Arbabi, M.)			Jansens, T. J. (see Schlessinger, M.)	
			Johnson, C. (see Solheim, D. M.)	
			Jones, J. E. (see Mikenas, V. A.)	
			Jordan, L., Garbano, J.	

UNCLASSIFIED

	Vol	Page		
<i>Comparison of on-board defenses for cruise missile carrier aircraft</i> .....	14	36	<i>ness for L-band and S-band (in Space-Based Radar)</i> .....	82-2 121
Jordan, W E, Jr			Lang, T J (see Strom, B T.)	
<i>Submarine air defense missile system technology program</i> .....	11	159	Langley, W. M (see Fisher, J R.)	
Kahn, D. A			Leet, H P, Gardner, K L, Kovar, J J., Barnes, M. J	
<i>Cruise missile penetration of Soviet air defenses—candidate second-generation cruise missile characteristics</i> .....	12	113	<i>Automatic ship classification development at the Naval Weapons Center</i> .....	13 327
(also see Schubus, W. J.)			Lehner, C R. (see Goddard, S.)	
Kaltnagel, D V.			Lemmus, W. Z. (see Fisher, J. R.)	
<i>Tomahawk antiship cruise missile and OTH targeting—part I: Tomahawk status and history</i> .....	13	379	LeVine, D. (see MacDonald, G.)	
Karagi, J T., Jr.			Levy, J E. (see Lewark, W.)	
<i>Autonomous terminal homing—providing new, nonnuclear options</i> .....	11	202	Lewark, W, Parice, W L, Marino, D. J., Levy, J. E., Lyon, E., Nelson, G	
Kebae J W., Brower, K S.			<i>The over-the-horizon backscatter radar (in Warning and Defense Against Strategic Attack)</i> .....	82-3 214
<i>U.S. and Soviet weapon system design practices</i> .....	13	405	Loagaker, P. R (see Dyrak, C. P.)	
Kendall, F., III (see Perdue, T M.)			Luvra, C J, Trapam, L F, Granero, J. A.	
Kendall, W B, Rihaczek, A W.			<i>Performance of UHF adaptive antenna systems on aircraft (in Adaptive Antennas)</i> .....	82-1 71
<i>Enhanced radar system performance by target motion resolution processing</i> .....	11	355	Lynn, V. L	
Kennecally, W J.			<i>Systems and options: the development view (in Warning and Defense Against Strategic Attack)</i> .....	82-3 14
<i>Detection of stationary tactical units using MTI radar (in Command, Control, and Communications Countermeasures)</i> .....	81-1	79	Lyon, E. (see Lewark, W.)	
Key, E L.			MacDonald, G., Despain, A., Dyson, F., Flatt, S., Goldberger, M., Happer, W., LeVine, D., Richter, B., Ruina, J., Sullivan, J., Vesacky, J.	
<i>Approaches to the countering of Warsaw Pact command, control, and communications systems (in Command, Control, and Communications Countermeasures)</i> .....	81-1	5	<i>An analysis of future Soviet options in defense against the air-launched cruise missile</i> .....	14 1
(also see Fowle, E. N.)			Mace, G W (see Piotrowski, J. L.)	
Keys, J G, Swartz, E E			Mallett, J D (see Finn, H M.)	
<i>IFF, Act beacon electronic countermeasures (in Command, Control, and Communications Countermeasures)</i> .....	81-1	179	Maaz, B J (see Bohn, C L.)	
Kleiman, H (see Parent, R R.)			Marino, D J. (see Lewark, W.)	
Kluck, J. H (see Strom, B T.)			Masatta, C.	
Klug, R. F.			<i>Armor and mobility tradeoff (in Armored Fighting Vehicles)</i> .....	79-1 50
<i>Soviet radio electronic combat capability (in Command, Control, and Communications Countermeasures)</i> .....	81-1	318	Masak, R J., Lackey, R J	
Knight, J M.			<i>Antijam antenna techniques for line-of-sight communication links (in Adaptive Antennas)</i> .....	82-1 57
<i>Mercing antifraticide requirements in tactical air target identification</i> .....	11	459	Masenten, W K (see Mineo, J. A.)	
Knitel, G H (see Bayliss, E T.)			Mayersak, J. R	
Kochendorfer, F D, Bekey, I			<i>The armor response—precision guided munitions</i> .....	11 61
<i>Deployment demonstration program (in Space-Based Radar)</i> .....	82-2	248	Mayhan, J T, Floyd, Z W, Jr, Siegel, D A	
Kocher, D F (see Arbabi, M.)			<i>Performance evaluation of a breadboard UHF adaptive nulling processor (in Adaptive Antennas)</i> .....	82-1 9
Kovar, J J (see Leet, H P.)			McCormick, C. G., Menges, J K	
Kowalski, A M, Lackey, R J, Saggio, R J			<i>Expendable jammer applications against C<sup>3</sup> systems (in Command, Control, and Communications Countermeasures)</i> .....	81-1 163
<i>Recent developments in radar sidelobe cancellers (in Adaptive Antennas)</i> .....	82-1	152	McCrary, J. C., Blumstein, R B., Stevenson, T A	
Kustner, W H (see Mineo, J. A.)			<i>Soviet strategic warning and defense (in Warning and Defense Against Strategic Attack)</i> .....	82-3 25
Lackey, R. J (see Masak, R J, also see Kowalski, A M.)			McDonald, D F (see Covington, T G.)	
Laighton, D G, Sasonoff, J P, Selva, J R			McElroy, D R, Jr (see Seay, T S.)	
<i>Silicon-on-sapphire transceiver module compo-</i>			McGrath, P A (see Solheim, D M.)	
			Mecks, M L (see Delaney, J R.)	

UNCLASSIFIED

	<u>Vol</u>	<u>Page</u>		<u>Page</u>
Meerdink, K. J., Yamauchi, T. T. <i>E-JX—a potential C/CM systems platform (in Command, Control, and Communications Countermasures)</i> .....	81-1	206	Page, W., Jr (see Jacobs, J. F.) Parenti, R. R., Kleiman, H. <i>Considerations in IR autonomous acquisition</i> .....	12 171
Meincke, C. J., Buchric, W. E. <i>Adaptive antenna systems for Army tactical radio communications (in Adaptive Antennas)</i> .....	82-1	128	Parks, W. G. (see Michalowicz, J. V.) Parlec, W. L. (see Lewark, W.) Parry, S. H. (see Hahn, W. D.) Perduc, T. M., Mootchnik, D. L., Kendall, F., III <i>Low-altitude defense for MX (in Warning and Defense Against Strategic Attack)</i> .....	82-3 171
McBeager, T. H. <i>Effectiveness of jamming AAA and SAM communications links (in Command, Control, and Communications Countermasures)</i> .....	81-1	271	Petrack, E. N. (see Decker, O. C.) Pflug, D. R. (see Schuman, H. K.) Pike, C. P., Inouye, G. T., Wax, R. L., Rosen, A., Sanders, N. L. <i>Space-based radar environmental interactions (in Space-Based Radar)</i> .....	82-2 179
Menges, J. K. (see McCormack, C. G.) Michalowicz, J. V., Mianemas, M. J., Parks, W. G. <i>Evaluation of nuclear artillery battery coverage</i> .....	13	479	Plotkowski, J. L., Quist, B. W., Sewell, M. H., Mace, G. W. <i>An overview of U.S. strategic air defense systems and capabilities (in Warning and Defense Against Strategic Attack)</i> .....	82-3 197
Mordauer, D. R., Stockmann, P. H. <i>ECM/ECCM interactions in space-based radar (in Space-Based Radar)</i> .....	82-2	190	Foehmann, H. C. (see Hawkins, W. C.) Fook, W. (see Augustine, N. R.) Poppe, R. T. <i>High-energy laser weapons: why and when</i> .....	12 390
Mikenas, V. A., Williams, R. L., Jones, J. E. <i>Global positioning system null steering antenna flight test results (in Adaptive Antennas)</i> .....	82-1	246	Porter, E. H., Jr. <i>Potential fleet ballistic missile accuracy using inertial equipment (Technical Note)</i> .....	13 275
Millar, R. I. (see Fowle, E. N.) Miller, J. <i>A status report on CW chemical laser technology</i> .....	12	261	Primmerman, C. A., Greenwood, D. P., Wigdor, I. <i>Atmospheric-compensation experiments—part I, laboratory experiments</i> .....	13 72
Milton, A. F. (see Takken, E. H.) Mineo, J. A., Akins, A. J., Hinman, R. D. <i>Integrated adaptive array and spread spectrum modem ECCM test program (in Adaptive Antennas)</i> .....	82-1	88	Quist, B. W. (see Plotkowski, J. L.) Rassweiler, G. <i>Adaptive arrays using random search optimization (in Adaptive Antennas)</i> .....	82-1 235
Mirco, J. A., Kummer, W. H., Masenien, W. K., Isaacs, D. <i>Design and performance of JTIDS adaptive antenna system for F-15 aircraft (in Adaptive Antennas)</i> .....	82-1	223	Reis, V. H. <i>Close air support systems a first-order analysis</i> .....	12 99
Minneman, M. J. (see Michalowicz, J. V.) Mitchell, H. J. (see Bauer, E.) Moore, R. A. <i>Precision guided munitions (PGM)—rationale and issues</i> .....	14	212	<i>Effectiveness of terminal surface-to-air missile systems against cruise missiles: different views</i> .....	12 307
Mootchnik, D. L. (see Perduc, T. M.) Mueh, C. F. (see Federhen, H. M.) Naster, R. J., Huang, Y., Zaidel, S. A. <i>Monolithic silicon-on-sapphire radar transceiver component development (in Space-Based Radar)</i> .....	82-2	113	Reinus, O. <i>Countersurveillance techniques (in Armored Fighting Vehicles)</i> .....	79-1 155
Nelson, G. (see Lewark, W.) Novick, R. (see Cornwall, J. M.) Nunn, J. H. (see Scholz, J. E.) Nunn, W. R., Oberle, R. A. <i>Modeling air combat maneuvering engagements</i> .....	12	196	Riccardi, N. A. (see Urkowitz, H.) Richter, B. (see MacDonald, G.) Rihaczek, A. W. (see Kendall, W. B.) Ritter, J. C. <i>Radiation hardening of satellite systems</i> .....	11 26
Oberle, R. A. (see Nunn, W. R.) O'Hare, W. S., Dodson, P. O. <i>A functional description of the River Fire system (in Command, Control, and Communications Countermasures)</i> .....	81-1	243	Robertson, T. C. <i>The ballistic missile threat a tactical warning/attack assessment (in Warning and Defense Against Strategic Attack)</i> .....	82-3 87
O'Malley, J. F., Brown, B. K. <i>Role of strategic warning and defense the operational view (in Warning and Defense Against Strategic Attack)</i> .....	82-3	3	Rood, R. A. <i>Space-based radar in the NORAD environment (in Space-Based Radar)</i> .....	82-2 1
			Rosen, A. (see Pike, C. P.) Rothwell, P. L. <i>The strategic implications of modifying the space environment</i> .....	15 135
			Ruderman, M. A. (see Cornwall, J. M.) Ruina, J. (see MacDonald, G.)	

UNCLASSIFIED

	Vol	Page		
Requist, R. D., Sutton, G. W <i>Ground-based laser engagement analysis</i> . . . . .	11	88	Warning and Defense Against Strategic Attack) . . . . .	82-3 116
Saggio, R. J. (see Kowalski, A. M.)			Stevenson, T. A. (see McCrery, J. C.)	
Samson, J. R., Jr <i>The advanced on-board signal processor (AOSP) in a space-based radar application (in Space-Based Radar)</i> . . . . .	82-2	229	Stiglitz, I. G. <i>A precision guided weapons approach to command and control countermeasures</i> . . . . .	11 231
Sanders, N. L. (see Pike, C. P.)			Stockmann, P. H. (see Miedaner, D. R.)	
Sasonoff, I. P. (see Loughton, D. G.)			Straw, D. C. (see Bayless, J. R.)	
Saulson, D. S. (see Strom, B. T.)			Strom, B. T., Schneizer, G. A., Gibson, R. G., Hennessey, F. T., Kluck, J. H., Lang, T. J., Bavaro, L. T., Saulson, D. S., Farran, R. A., Curry, S. J., Byington, L. E., Stathacopoulos, A. D. <i>Space-based radar for atmospheric tactical warning (in Warning and Defense Against Strategic Attack)</i> . . . . .	82-3 253
Schlessinger, M., Biocter, W., Brundage, D. G., Janssens, T. J., Stinley, J. E., Goldstein, R., Shields, R. A. <i>Air defense and warning—space-based infrared sensors for atmospheric tactical warning (in Warning and Defense Against Strategic Attack)</i> . . . . .	82-3	233	Sullivan, J. (see MacDonald, G.)	
Schneizer, G. A. (see Strom, B. T.)			Sullivan, J. D. (see Cornwall, J. M.)	
Scholz, J. E., Nunn, J. H. <i>Overview of missile warning and attack assessment (in Warning and Defense Against Strategic Attack)</i> . . . . .	82-3	73	Sutton, G. W. (see Requist, R. D.)	
Schultz, W. J., Kahn, D. A. <i>Cruise missile and bomber penetration of Soviet air defenses—national force analysis</i> . . . . .	11	107	Swartz, E. E. (see Council, W. A.; also see Keys, J. G.)	
Schuman, H. K., Pflug, D. R., Thompson, L. <i>Phased array lens analysis for space-based radar application (in Space-Based Radar)</i> . . . . .	82-2	16	Takken, E. H., Milton, A. F. <i>Temporal cluster processing analysis for IR flight eye threat warning sensor</i> . . . . .	15 173
Schwartz, E. L. (see Gronz, J. H.)			Tarmy, R. <i>Analysis and measurement of a multiple-loop sidelobe canceller for MICNS (in Adaptive Antennas)</i> . . . . .	82-1 160
Sear, R. H. (see Fowle, E. N.)			Thomas, A. N. <i>Air Defense Assault Breaker—effective, affordable, and available</i> . . . . .	13 241
Scay, T. S., McElroy, D. R., Jr <i>The LES-8/9 program</i> . . . . .	11	369	Thomas, C. M. (see Bertapelle, A. H.)	
Sehn, J. R. (see Loughton, D. G.)			Thompson, L. (see Schuman, H. K.)	
Selvinic, M. D. (see Hahn, W. D.)			Trapani, L. P. (see Luvera, C. J.)	
Senne, K. D. (see Adams, R. N.)			Travesky, P. (see Sheehan, E. J.)	
Sewell, M. H. (see Piotrowski, J. L.)			Urkowitz, H., Ricciardi, N. A. <i>Classification experiments with simulated upgraded BMEWS radars</i> . . . . .	13 60
Shannon, J. A. (see Douglas, J. D., Jr.)			Vesucky, J. (see MacDonald, G.)	
Sheehan, E. J., Travesky, P. D. <i>Armored fighting vehicles: current capabilities and limitations, night fighting capabilities (in Armored Fighting Vehicles)</i> . . . . .	79-1	67	Vulu, A. (see Blase, E. F.; also see Fredericksen, D. N.)	
Shields, M. W. (see Hawkins, W. C.)			Walsh, D. W. <i>High-energy lasers for ballistic missile defense</i> . . . . .	12 250
Shields, R. A. (see Schlessinger, M.)			Wax, R. L. (see Pike, C. P.)	
Siegel, D. A. (see Mayhan, J. T.)			Weiner, S. D. <i>Ballistic missile defense—a multiple aimpoint MX system</i> . . . . .	11 418
Simpson, W. E. (see Gallegro, G. F.)			West, W. D. (see Hahn, W. D.)	
Solheim, D. M., Guttman, P. T., Johnson, C., McGrath, P. A. <i>Potential future TW/AA systems (in Warning and Defense Against Strategic Attack)</i> . . . . .	82-3	146	Wiener, T. F. <i>Strategic laser communications</i> . . . . .	13 315
Southall, H. L., Clapp, R. E. <i>Null formation using feed control in completely overlapped subarray antennas (in Space-Based Radar)</i> . . . . .	82-2	134	Wigdor, I. (see Primmerman, C. A.)	
Spoern, S. (see Federhen, H. M.)			Wittihoff, G. S. <i>Simulator-aided design and evaluation of a communications jammer (in Command, Control, and Communications Countermeasures)</i> . . . . .	81-1 252
Stinley, J. E. (see Schlessinger, M.)			Williams, R. L. (see Mikesas, V. A.)	
Starry, D. A., Hunt, I. A., Jr <i>The role of armor in modern battle (in Armored Fighting Vehicles)</i> . . . . .	79-1	3	Willis, N. J. <i>Ballistic radar: a review and update</i> . . . . .	13 137
Stathacopoulos, A. D. (see Strom, B. T.)			Winter, W. H. (see Rayer, C. T.)	
Stuedel, F. <i>Missile warning and attack assessment radars (in</i>			Wiseman, W. R.	

UNCLASSIFIED

GAAs monolithic microwave transceiver module (in Space-Based Radar)	Vol 82-2	Page 126
Yamauchi, T. T (see Meerdink, K. J.)		
Yeager, M. R., Cranford, C. R.		
Command, control, and communications countermeasures munitions (in Command, Control, and Communications Countermeasures)	81-1	295
Zaidel, S. A (see Naster, R. J.)		
Zulch, D. I., Entzinger, J. N., Jr.		
Command, control, communications countermeasures (C3CM), target location and classification/identification (in Command, Control, and Communications Countermeasures)	81-1	58

TITLES

Adaptive antenna systems for Army tactical radio communications, C. J. Metzke, W. E. Buchik (Adaptive Antennas)	82-1	128
Adaptive array considerations for TDMA SATCOM uplinks, J. L. Gleich, H. W. Hadley (Adaptive Antennas)	82-1	25
Adaptive arrays using random search optimization, G. Rassewitz (Adaptive Antennas)	82-1	235
Adaptive controlled phased array antennas for protection of ASW data links, A. I. Cerna, M. A. Brody (Adaptive Antennas)	82-1	198
Advanced on-board signal processor (AOSP) in a space-based radar application, J. R. Samson, Jr (Space-Based Radar)	82-2	229
Advanced systems concepts, F. L. Bagby, C. D. Bradley (Armored Fighting Vehicles)	79-1	245
Advanced technology test beds and field test programs for armored fighting vehicles, T. G. Covington, D. F. McDonald (Armored Fighting Vehicles)	79-1	222
Advanced weapon concepts for cruise missile defense, G. R. Curry	13	35
Aerosols as an exoatmospheric optical countermeasure, C. P. Dyjack, P. R. Longaker, G. L. Carayannopoulos	13	363
Air defense and warning—space-based infrared sensors for atmospheric tactical warning, M. Schlessinger, W. Blocker, D. G. Brundige, T. J. Janessa, J. E. Stanley, R. Goldstein, R. A. Shields (Warning and Defense Against Strategic Attack)	82-3	233
Air Defense Asset Breaker—effective, affordable, and available, A. N. Thomas	13	241
Analysis and measurement of a multiple-loop side-lobe canceller for MICNS, R. Tarmy (Adaptive Antennas)	82-1	169
Analysis of future Soviet options in defense against the air-launched cruise missile, G. MacDonald, A. Despain, F. Dyson, S. Flattic, M. Goldberger, W. Happer, D. Levine, B. Richter, J. Ruina, J. Sullivan, and J. Veselky	14	1
Armor systems in NATO, planning and prospects, S. J. Denckman	12	288
Antenna antenna techniques for line-of-sight communication links, R. J. Masak, R. J. Lackey		

(Adaptive Antennas)	82-1	57
Application of netted radars in support of tactical operations, H. M. Federben, C. E. Muebe, S. Spoern	12	209
Application of spectrum spreading and main-beam antenna nulling to wideband data reception, R. N. Adams, L. A. Besette, W. G. Brodsky, L. L. Horowitz, K. D. Senna (Adaptive Antennas)	82-1	187
Approaches to the countering of Warsaw Pact command, control, and communications systems, E. L. Key (Command, Control, and Communications Countermeasures)	81-1	5
Armor and mobility tradeoff, C. Masatis (Armored Fighting Vehicles)	79-1	50
Armor response—precision guided munitions, J. R. Maycrak	11	61
Armored fighting vehicles: current capabilities and limitations, night fighting capabilities, E. J. Sheehan, P. D. Travesky (Armored Fighting Vehicles)	79-1	67
Atmospheric compensation experiments—part I, laboratory experiments, C. A. Primmerman, D. P. Greenwood, I. Wigdor	15	72
Automatic ship classification development at the Naval Weapons Center, H. P. Lee, K. L. Gardner, J. J. Kovar, M. J. Barnes	13	327
Automation in Soviet troop control, J. D. Douglass, Jr., J. A. Shannon	11	332
Autonomous terminal homing—providing new, nonuclear options, J. T. Karan, Jr.	11	282
Baltic missile defense of a multiple ampoult MX system, S. D. Werner	11	418
Baltic missile threat a tactical warning/strike assessment, T. C. Robertson (Warning and Defense Against Strategic Attack)	82-3	87
BELCAD as a counter-C3 measure, C. D. Buedick (Command, Control, and Communications Countermeasures)	81-1	285
Bionic radar a review and update, N. J. Wilts	13	137
Bomber force launch survivability, B. B. Gragg	11	438
Character and style of Soviet weapons design, A. J. Alexander	12	319
Charged particle beam concepts, J. R. Bayless, C. M. Huddleston, D. C. Straw	14	87
Classification experiments with simulated upgraded BMEWS radars, H. Urkowitz, N. A. Raccardo	13	60
Close air support systems a first-order analysis, V. H. Reis	12	99
Command, control, and communications countermeasures (C3CM), target location and classification/identification, D. I. Zulch, J. N. Entzinger, Jr (Command, Control, and Communications Countermeasures)	81-1	58
Command, control, and communications countermeasures munitions, M. R. Yeager, C. R. Cranford (Command, Control, and Communications Countermeasures)	81-1	295
Communications jamming, R. W. Bradley (Command, Control, and Communications Countermeasures)	81-1	225
Comparison of on-board defenses for cruise missile carrier aircraft, L. Jordan, J. Garbano	14	26



UNCLASSIFIED

	Vol	Page		
<i>Comparison of TACOM II simulation model results with Seek Talk advanced development model tests.</i> R D Human	15	36	<i>ration for decoy applications.</i> R L Adams	12 24
<i>Comparison of U.S. and Soviet tanks and tank-related developments.</i> D N Frodencksen, A Vitu (Armored Fighting Vehicles)	79-1	15	<i>Digital sublobe canceller—an analysis of field test results.</i> H M Finn, J D Mallett (Adaptive Antennas)	82-1 139
<i>Component development for future combat vehicles.</i> O C Decker, E N Petrick (Armored Fighting Vehicles)	79-1	169	<i>Distributed jamming system (DJS).</i> F E Edden (Command, Control, and Communications Countermeasures)	81-1 188
<i>Considerations in IR autonomous acquisition.</i> R R Parents, H Kleiman	12	171	<i>E-3X—a potential CJCM system platform.</i> K J Meerdink, T T Yamauchi (Command, Control, and Communications Countermeasures)	81-1 206
<i>Contributions of agility to survivability.</i> W D Hahn, S H. Parry, M D. Sciviele, W. D West (Armored Fighting Vehicles)	79-1	141	<i>ECM/ECCM interactions in space-based radar.</i> D R Miedaner, P. H Stockmann (Space-Based Radar)	82-2 190
<i>Conventional-nuclear interact in Soviet strategy.</i> J. D. Douglas, Jr., A M Hoebler	12	43	<i>Effective use of advanced technology for defense.</i> G J Friedman	14 59
<i>Copperhead: the evolution of a revolutionary weapon.</i> J. F. Hall	13	184	<i>Effectiveness of jamming AAA and SAM communications links.</i> T H Mellenger (Command, Control, and Communications Countermeasures)	81-1 271
<i>Counter mission analysis of Warsaw Pact C<sup>3</sup>.</i> J F Jacobs, W Page, Jr. (Command, Control, and Communications Countermeasures)	81-1	33	<i>Effectiveness of terminal surface-to-air missile systems against cruise missiles—different views.</i> V H Reis	12 307
<i>Counter mission analysis for the advanced tactical fighter.</i> J. R. Garbarino	14	173	<i>Electro-optical pods for single-seat night attack.</i> W. L. Francis, E. Ekareb	13 1
<i>Countering Soviet Navy command, control, and communications.</i> D R. Hechner (Command, Control, and Communications Countermeasures)	81-1	47	<i>Emitter location systems.</i> J J Cruskie, E. E Cossette, I S Glickstein (Command, Control, and Communications Countermeasures)	81-1 116
<i>Counter surveillance techniques.</i> O. Reinius (Armored Fighting Vehicles)	79-1	155	<i>Enhanced radar system performance by target motion resolution processing.</i> W. B Kendall, A W Rihaczek	11 355
<i>Cruise missile and bomber penetration of Soviet air defenses—nationwide force analysis.</i> W J. Schults, D. A. Kahr	11	107	<i>Enigma of the AN/FPS-95 OTH radar.</i> E. N. Fowler, E L Key, R. J. Miller, R H Scott	11 289
<i>Cruise missile history: performance of the Allied defenses against the V-1.</i> D L Briggs (appendix to Air Defense Against Cruise Missiles)	81-2	72	<i>Escort/standoff and strategic application of C<sup>3</sup> countermeasures.</i> G. P Florence (Command, Control, and Communications Countermeasures)	81-1 134
<i>Cruise missile penetration of Soviet air defenses—candidate second-generation cruise missile characteristics.</i> D A Kahn	12	113	<i>Evaluation of nuclear artillery battery coverage.</i> J V. Michalowicz, M J Mineman, W G Parks	13 479
<i>DARPA liquid propellant gun programs.</i> S Goddard, C R Lehaer (Armored Fighting Vehicles)	79-1	195	<i>Exoatmospheric ballistic missile defense.</i> J R Fisher, W M Langley, J B Griffin, W Z Lemnios (Warning and Defense Against Strategic Attack)	82-3 183
<i>Defense against the U.S. cruise missile.</i> N R Augustinc, E C Aldridge, W Poole	11	1	<i>Exoatmospheric laser intercept system concept study.</i> C Henderson	15 147
<i>Defense Support Program.</i> R Goldstein, P J Baker (Warning and Defense Against Strategic Attack)	82-3	98	<i>Exoatmospheric long-wavelength infrared sensors.</i> W O Davies	14 219
<i>Deployment demonstration program.</i> F D Kochendorf, I Bekey (Space-Based Radar)	82-2	248	<i>Expendable jammer applications against C<sup>3</sup> systems.</i> C G McCormick, J K Menges (Command, Control, and Communications Countermeasures)	81-1 163
<i>Description of the cruise missile detection technology program.</i> W P Delaney (Air Defense Against Cruise Missiles)	81-2	7	<i>Functional description of the River Fire system.</i> W S O'Hare, P O Dodson (Command, Control, and Communications Countermeasures)	81-1 243
<i>Design and performance of JTIDS adaptive array antenna system for F-15 aircraft.</i> J A Minco, W H Kummer, W K Masenka, D Isaacs (Adaptive Antennas)	82-1	223	<i>Future satellite-based infrared systems.</i> A H Bertapelle, C M Thomas, G Glaser (Warning and Defense Against Strategic Attack)	82-3 111
<i>Detection of stationary tactical units using MTI radar.</i> W J Kennally (Command, Control, and Communications Countermeasures)	81-1	79	<i>GaAs monolithic microwave transmitter module.</i> W. R. Wiseman (Space-Based Radar)	82-2 126
<i>Development of active popup lens antenna.</i> W C Hawkins, H C Poehimann, M W Shields (Space-Based Radar)	82-2	95	<i>Global positioning system null steering antenna flight test results.</i> V A Mikenas, R L Williams, J E Jones (Adaptive Antennas)	82-1 246
<i>Development of an unconventional telemetry configura-</i>			<i>Ground-based laser engagements analysis.</i> R D Ruquist, G W Sutton	11 88
			<i>Ground verification of space-based radar's ability to</i>	

UNCLASSIFIED

<i>see aircraft and ALCM targets in land cluster.</i>				
<i>E. Brookner (Space-Based Radar)</i>	82-2	274	<i>S. A. Zaidel (Space-Based Radar)</i>	82-2 113
<i>Hemispheric-coverage radar—a new, highly mobile radar concept for artillery location and air surveillance.</i>	12	364	<i>New developments in ABM electronic countermeasures.</i>	
<i>E. T. Bayless, G. H. Kaziel</i>			<i>C. J. Digeais, W. M. Brown, E. O. Groszorn</i>	12 1
<i>HF adaptive antenna flight test.</i>	82-1	116	<i>New initiatives in conventional munitions.</i>	
<i>A. T. Cereno, P. S. Dennis (Adaptive Antennas)</i>			<i>E. F. Blasc, K. P. Gogolowski, A. Vilu</i>	11 409
<i>High-energy laser weapons: why and when.</i>	12	390	<i>Null formation using feed control in completely overlapped subarray antennas.</i>	
<i>R. T. Poppe</i>			<i>H. L. Southall, R. E. Clapp (Space-Based Radar)</i>	82-2 134
<i>High-energy lasers for ballistic missile defense.</i>	12	250	<i>Number of new and improved U.S. and USSR weapon systems introduced annually, 1960-1981.</i>	
<i>D. W. Walsh</i>			<i>P. J. Berenson, J. H. Heary</i>	14 154
<i>IFF/ATC beacon electronic countermeasures.</i>	81-1	179	<i>Over-the-horizon backscatter radar.</i>	
<i>J. G. Keys, E. E. Swartz (Command, Control, and Communications Countermeasures)</i>			<i>W. Lewark, W. L. Parlee, D. J. Marino, J. E. Levy, E. Lyon, G. Nelson (Warning and Defense Against Strategic Attack)</i>	82-3 214
<i>Infrared SAM defense possibility.</i>	81-2	49	<i>Overview of ballistic missile defense.</i>	
<i>J. C. Fielding (Air Defense Against Cruise Missiles)</i>			<i>C. T. Bayer, W. H. Winter (Warning and Defense Against Strategic Attack)</i>	82-3 163
<i>Inertial high explosives and propellants.</i>	13	469	<i>Overview of missile warning and attack assessment.</i>	
<i>R. J. Eichelberger</i>			<i>J. E. Scholz, J. H. Nunn (Warning and Defense Against Strategic Attack)</i>	82-3 73
<i>Integrated adaptive array and spread spectrum modern ECCM test program.</i>	82-1	88	<i>Overview of the technical defense problems.</i>	
<i>J. A. Mineo, A. J. Altus, R. D. Hinman (Adaptive Antennas)</i>			<i>W. P. Delaney (Air Defense Against Cruise Missiles)</i>	81-2 3
<i>Interim results of the phased array rotating membrane development program.</i>	82-2	52	<i>Overview of U.S. strategic air defense systems and capabilities.</i>	
<i>G. F. Gallegro, W. E. Simpson, G. D. Jacobson (Space-Based Radar)</i>			<i>J. L. Piotrowski, B. W. Quist, M. H. Sewell, G. W. Mace (Warning and Defense Against Strategic Attack)</i>	82-3 197
<i>Jam-resistant secure voice communication (JRSVC).</i>	12	149	<i>Performance evaluation of a broadband UHF adaptive nulling processor.</i>	
<i>J. U. Bouch, A. G. Cameron</i>			<i>J. T. Mayhan, F. W. Floyd, Jr., D. A. Siegal (Adaptive Antennas)</i>	82-1 9
<i>Late-time optical effects of nuclear dust clouds.</i>	15	51	<i>Performance of UHF adaptive antenna systems on aircraft.</i>	
<i>E. Bauer, F. R. Gilmore, H. J. Mitchell</i>			<i>C. J. Luvera, L. P. Trapani, J. A. Granico (Adaptive Antennas)</i>	82-1 71
<i>LES-819 program</i>	11	369	<i>Phased array lens analysis for space-based radar application.</i>	
<i>T. S. Seay, D. R. McElroy, Jr.</i>			<i>H. K. Schuman, D. R. Pfug, L. Thompson (Space-Based Radar)</i>	82-2 16
<i>Long wavelength infrared technology for ballistic missile defense.</i>	15	1	<i>Pilot's view of precision guided munitions.</i>	
<i>J. M. Cornwall, S. D. Drell, F. J. Dyson, H. M. Foley, R. Novack, M. A. Ruderman, J. D. Sullivan</i>			<i>C. L. Comfort, M. Gering</i>	14 209
<i>Low-altitude defense for MX.</i>	82-3	171	<i>Potential fleet ballistic missile accuracy using inertial equipment.</i>	
<i>T. M. Perdue, D. I. Mouchuk, F. Kendall III (Warning and Defense Against Strategic Attack)</i>			<i>E. H. Porter, Jr. (Technical Note)</i>	13 275
<i>Low-sidelobe space-fed lens antenna transform feed study.</i>	82-2	148	<i>Potential future TW/AA systems.</i>	
<i>J. D. Haanfling, B. R. Herrick (Space-Based Radar)</i>			<i>D. M. Solheim, P. T. Guttman, C. Johnson, P. A. McGrath (Warning and Defense Against Strategic Attack)</i>	82-3 146
<i>Manned-interceptor defense problems.</i>	81-2	58	<i>Precision guided munitions (PGM)—rationale and issues.</i>	
<i>A. D. Bernard (Air Defense Against Cruise Missiles)</i>			<i>R. A. Moore</i>	14 212
<i>Maritime nuclear war and naval force structure considerations.</i>	15	86	<i>Precision guided weapons approach to command and control countermeasures.</i>	
<i>J. H. Grotte, J. S. Domin, R. H. Jakobovits, E. L. Schwartz</i>			<i>I. G. Slight</i>	11 231
<i>Meeting antisatellite requirements in tactical air target identification.</i>	11	459	<i>Protecting our tactical C<sup>3</sup> systems from attack and exploitation.</i>	
<i>J. M. Knight</i>			<i>R. W. Jacobus (Command, Control, and Communications Countermeasures)</i>	81-1 333
<i>Methodologies for analyzing laser systems in a space defense role.</i>	12	80	<i>Quality versus quantity in tactical fighter forces.</i>	
<i>C. L. Bohn, B. J. Manz, A. F. Cooper</i>			<i>F. L. Frostic</i>	13 285
<i>Microwave processor a programmable digital signal processor technology for remote ASW surveillance applications.</i>	13	352	<i>Radar clutter effects.</i>	
<i>S. N. Goulding</i>			<i>D. L. Briggs, R. E. Francois, Jr. (Air Defense Against Cruise Missiles)</i>	81-2 33
<i>Missile warning and attack assessment radars.</i>	82-3	116		
<i>F. Steudel (Warning and Defense Against Strategic Attack)</i>				
<i>Modeling air combat maneuvering engagements.</i>	12	196		
<i>W. R. Nunn, R. A. Oberic</i>				
<i>Monolithic silicon-on-sapphire radar transceiver component development.</i>				
<i>R. J. Naster, Y. Huang</i>				

UNCLASSIFIED

<i>Radar propagation effects</i> , J R Delaney, M L Meeks (Air Defense Against Cruise Missiles) ..	81-2	19
<i>Radiation hardening of satellite systems</i> , J C Ritter ..	11	26
<i>Recent developments in radar sidelobe cancellers</i> , A M Kowalski, R J Lackey, R J Saggio (Adaptive Antennas) ..	82-1	152
<i>Recent tank gun technology</i> , B P Burns (Armored Fighting Vehicles) ..	79-1	124
<i>Role and nature of adaptive antennas in ECCM</i> , J A Granero (Adaptive Antennas) ..	82-1	1
<i>Role of armor in modern battle</i> , D A Starry, I A Hunt, Jr. (Armored Fighting Vehicles) ..	79-1	3
<i>Role of strategic warning and defense the operational view</i> , J F O'Malley, B K Brown (Warning and Defense Against Strategic Attack) ..	82-3	3
<i>Signal acquisition system for C<sup>3</sup> countermeasures</i> , W A Council, E E Swartz (Command, Control, and Communications Countermeasures) ..	81-1	107
<i>Silicon-on-sapphire transceiver module components for L-band and S-band</i> , D G Loughton, J P Sazonoff, J R Selin (in Space-Based Radar) ..	82-2	121
<i>Simulation model of the cruise action system</i> , M Arbabi, L T Gutierrez, D F Kocher ..	13	90
<i>Simulator-aided design and evaluation of a communications jammer</i> , G S Wilhoff (Command, Control, and Communications Countermeasures) ..	81-1	252
<i>Single-layer microstrip membrane for space radar</i> , R R Henry, J G Fisher (Space-Based Radar) ..	82-2	88
<i>Soviet digital signal processing research and technologies which have application to sonar</i> , J W Carstairs ..	12	333
<i>Soviet radio electronic combat capability</i> , R F Klug (Command, Control, and Communications Countermeasures) ..	81-1	318
<i>Soviet strategic warning and defense</i> , J C McCrery, R B Blumstein, T A Stevenson (Warning and Defense Against Strategic Attack) ..	82-3	25
<i>Space-based radar antenna design verification study</i> , J D Hanfing (Space-Based Radar) ..	82-2	261
<i>Space-based radar environmental interactions</i> , C P Pike, G T Inouye, R L Wax, A Rosen, N L Sanders (Space-Based Radar) ..	82-2	179
<i>Space-based radar for atmospheric tactical warning</i> , B T Strom, G A Schneiber, R G Gibson, F T Hennessey, J H Kluck, F J Lang, L T Bayaro, D S Saulson, R A Farran, S J Curry, L E Byington, A D Stathacopoulos (Warning and Defense Against Strategic Attack) ..	82-3	253
<i>Space-based radar in the NORAD environment</i> , R A Roode (Space-Based Radar) ..	82-2	1
<i>Space laser battle station</i> , M W Hunter II ..	14	248
<i>Status report on CW chemical laser technology</i> , J Miller ..	12	261
<i>Strategic implications of modifying the space environ-</i>		

<i>ment</i> , P L Rothwell ..	15	135
<i>Strategic laser communications</i> , T F Wiener ..	13	315
<i>Submarine air defense missile system technology program</i> , W E Jordan, Jr ..	11	159
<i>Systems and options the development view</i> , V L Lyon (Warning and Defense Against Strategic Attack) ..	82-3	14
<i>Tank gun evolution</i> , R J Eichelberger (Armored Fighting Vehicles) ..	79-1	115
<i>Temporal clutter processing analysis for IR fly's eye threat warning sensor</i> , E H Takken, A F Milton ..	15	173
<i>Terminally guided submissiles technology and applications</i> , J A French ..	11	252
<i>Terrain masking effects</i> , R E Francois, Jr (Air Defense Against Cruise Missiles) ..	81-2	9
<i>Tomahawk anti-ship cruise missile and OTH targeting—part I Tomahawk status and history</i> , D V Kalbaugh ..	13	379
<i>Unconventional defenses</i> , A D Bernard (Air Against Cruise Missiles) ..	81-2	67
<i>U.S. and Soviet weapon system design practices</i> , J W Kehoe, K S Brower ..	13	405
<i>Verification of the adaptive nulling achievable</i> , E Brookner (Space-Based Radar) (Technical Note) ..	82-2	227
<i>XM-1, main battle tank of the future</i> , D M Babers (Armored Fighting Vehicles) ..	79-1	93

PERMUTATED TITLES

<i>ABM electronic countermeasures. New developments in</i> ..	12	1
<i>Adaptive antenna systems for Army tactical radio communications</i> ..	82-1	128
<i>Adaptive array considerations for TDMA SATCOM uplinks</i> ..	82-1	25
<i>Adaptive arrays using random search optimization</i> ..	82-1	235
<i>Adaptive controlled phased array antenna for protection of ASW data links</i> ..	82-1	198
<i>Advanced on-board signal processor (AOSP) in a space-based radar application</i> ..	82-2	229
<i>Advanced technology for defense. Effective use of</i> ..	14	59
<i>Aerosols as an exoatmospheric optical countermeasure</i> ..	13	363
<i>Air combat maneuvering engagements. Modeling</i> ..	12	196
<i>Air defense and warning—space-based infrared sensors for atmospheric tactical warning</i> ..	82-3	233
<i>Air Defense Assault Breaker—effective, affordable, and available</i> ..	13	241
<i>Air defense missile system technology program. Submarine</i> ..	11	159
<i>Air defense systems and capabilities. Overview of U.S. strategic</i> ..	82-3	197

UNCLASSIFIED

	Vol	Page		
[Aircraft] Counterair mission analysis for the advanced tactical fighter	7a	173	nology for remote	13 352
[Aircraft] Electro-optical pods for single-seat night attack	13	1	Atmospheric-compensation experiments—part I laboratory experiments	15 72
Antenna design verification study, Space-based radar	82-2	261	Automatic ship classification development at the Naval Weapons Center	13 327
[Antenna] Deployment demonstration program	82-2	246	Automation in Soviet troop control	11 332
Antenna. Development of active pop-up lens	82-2	95	Autonomous terminal homing—providing new, non-nuclear options	11 202
Antenna flight test, HF adaptive	82-1	116	Ballistic missile accuracy using inertial equipment, Potential fleet	15 275
Antenna flight test results, Global positioning system null steering	82-1	246	Ballistic missile defense, Exoatmospheric	82-3 183
Antenna for protection of ASW data links, Adaptive controlled phased array	82-1	198	Ballistic missile defense High-energy lasers for	12 250
[Antenna] Integrated adaptive array and spread spectrum modem ECCM test program	82-1	88	Ballistic missile defense, Long wavelength infrared technology for	15 1
Antenna nulling to wideband data reception, Application of spectrum spreading and main-beam	82-1	187	Ballistic missile defense of a multiple aimpoint MX system	11 418
[Antenna] radiating membrane development program, Interim results of the phased array	82-2	52	Ballistic missile defense, Overview of	82-3 163
Antenna system for F-15 aircraft, Design and performance of JTIDS adaptive array	82-1	223	Ballistic missile threat a tactical warning attack assessment	82-3 87
Antenna systems for Army tactical radio communications, Adaptive	82-1	128	BELCAD as a counter-C <sup>3</sup> measure	81-1 285
Antenna systems on aircraft, Performance of UHF adaptive	82-1	71	Bistatic radar, a review and update	13 137
Antenna techniques for line-of-sight communication links, Antijam	82-1	57	BMEWS radars, Classification experiments with simulated upgraded	13 60
Antenna transform feed study, Low-sidelobe spaced lens	82-2	148	Bomber force launch survivability	11 438
Antennas in ECCM, Role and nature of adaptive	82-1	1	C <sup>3</sup> Counter mission analysis of Warsaw Pact	81-1 33
Antennas, Null formation using feed control in completely overlapped subarray	82-2	134	C <sup>3</sup> systems, Expendable jammer applications against	81-1 163
Antiarmor systems in NATO planning and prospects	12	288	C <sup>3</sup> systems from attack and exploitation, Protecting our tactical	81-1 333
Antiirradiance requirements, in tactical air target identification, Meeting	11	459	Charged particle beam concepts	14 87
Antijam antenna techniques for line-of-sight communication links	82-1	57	Classification experiments with simulated upgraded BMEWS radars	13 60
Applications of netted radars in support of tactical operations	12	209	Classification/identification, Command, control, and communications countermeasures (C <sup>3</sup> CM), target location and	81-1 58
Application of spectrum spreading and main-beam antenna nulling to wideband data reception	82-1	187	Close air support systems, a first-order analysis	12 99
Armor and mobility tradeoff	79-1	50	Cluster effects, Radar	81-2 33
[Armor] Antiarmor systems in NATO planning and prospects	12	288	Cluster processing analysis for IR fly's eye threat warning sensor, Temporal	15 173
Armor evolution, Tank	79-1	115	Command, control, and communications, Countering Soviet Navy	81-1 47
Armor in modern battle, Role of	79-1	3	Command, control, and communications countermeasures (C <sup>3</sup> CM), target location and classification identification	81-1 58
Armor response—precision guided munitions	11	61	Command, control, and communications countermeasures monitors	81-1 295
[Armor] systems concepts, Advanced	79-1	245	Command, control, and communications systems, Approaches to the countering of Warsaw Pact	81-1 5
Armored fighting vehicles, Advanced technology test beds and field test programs for	79-1	222	Communication (JRSVC), Jam-resistant secure voice	12 149
Armored fighting vehicles current capabilities and limitations, night fighting capabilities	79-1	67	Communication links, Antijam antenna techniques for line-of-sight	82-1 57
[Armored] vehicles, Component development for future combat	79-1	169	Communications, Adaptive antenna systems for Army tactical radio	82-1 128
Artillery battery coverage, Evaluation of nuclear	13	479	Communications jammer, Simulator-aided design and evaluation of a	81-1 252
ASW data links, Adaptive controlled phased array antenna for protection of	82-1	198	Communications jamming	81-1 225
ASW surveillance applications, Microvector processor a programmable digital signal processor tech-			[Communications] LES-8 program	11 369
			Communications links, Effectiveness of jamming AAA and SAM	81-1 271
			Communications, Strategic laser	13 315

UNCLASSIFIED

	Vol	Page		
Conventional-nuclear interface in Soviet strategy-----	12	43	E-3X—a potential CCM system platform-----	81-1 206
Copperhead: the evolution of a revolutionary weapon-----	13	184	ECM/ECCM interactions in space-based radar-----	82-2 190
Counter mission analysis of Warsaw Pact C <sup>3</sup> -----	81-1	33	ECCM. Role and nature of adaptive antennas in-----	82-1 1
Counterair mission analysis for the advanced tactical fighter-----	14	173	ECCM test program. Integrated adaptive array and spread spectrum modem-----	82-1 88
Counter C <sup>3</sup> measure, BELCAD as a-----	81-1	285	Electro-optical pods for single-seat night attack-----	13 1
Countering Soviet Navy command, control, and communications-----	81-1	47	Emitter location systems-----	81-1 116
Countermeasure, Aerosols as an exoatmospheric optical-----	13	363	Enhanced radar system performance by target motion resolution processing-----	11 355
[Countermeasures] CCM system platform, E-3X—a potential-----	81-1	206	Escort, standoff and strategic application of C <sup>3</sup> countermeasures-----	81-1 134
Countermeasures, (CCM), target location and classification, identification, Command, control, and communications-----	81-1	58	Exoatmospheric ballistic missile defense-----	82-3 183
Countermeasures, Escort/standoff and strategic application of C <sup>3</sup> -----	81-1	134	Exoatmospheric laser intercept system concept study-----	15 147
Countermeasures, IFF, ATC beacon electronic-----	81-1	179	Exoatmospheric long-wavelength infrared sensors-----	14 219
Countermeasures munitions, Command, control, and communications-----	81-1	295	Expendable jammer applications against C <sup>3</sup> systems-----	81-1 163
Countermeasures, New developments in ABM electronic-----	12	1	Explosives and propellants, insensitive high-----	13 469
Countermeasures, Precision guided weapons approach to command and control-----	11	1	Fighter forces, Quality versus quantity in tactical-----	13 285
Countermeasures, Signal acquisition system for C <sup>3</sup> -----	81-1	107	Gas monolithic microwave transceiver module-----	82-2 126
Countermeasures, Simulation model of the-----	13	90	Global positioning system null steering antenna flight test results-----	82-1 246
Cruise missile, Analysis of future Soviet options in defense against the air-launched-----	14	1	Ground-based laser engagement analysis-----	11 88
Cruise missile and bomber penetration of Soviet air defenses—nationwide force analysis-----	11	107	Ground verification of space-based radar's ability to see aircraft and ALCM targets in land clutter-----	82-2 274
Cruise missile and OTH targeting—part I: Tomahawk status and history, Tomahawk antiship-----	13	379	Gw: programs, DARPA liquid propellant-----	79-1 195
Cruise missile carrier, Comparison of on-board defenses for-----	14	36	Gw: technology, Recent tank-----	79-1
Cruise missile defense, Advanced weapons concepts for-----	13	35	Hardening of satellite systems, Radiation-----	11 26
Cruise missile, Defense against the U.S.-----	11	1	Hemisphere-coverage radar—a new highly mobile radar concept for artillery location and air surveillance-----	12 364
Cruise missile detection technology program, Description of the-----	81-2	7	HF adaptive antenna flight test-----	82-1 116
Cruise missile history performance of the Allied defenses against the V-1-----	81-2	72	High-energy laser weapons: why and when-----	12 390
Cruise missile penetration of Soviet air defenses—candidate second-generation cruise missile characteristics-----	12	113	High-energy lasers for ballistic missile defense-----	12 250
Cruise missiles, different views, Effectiveness of terminal surface-to-air missile systems against-----	12	307	IFF ATC beacon electronic countermeasures-----	81-1 179
[Cruise missile] Unconventional defense-----	81-2	67	Inertial equipment, Potential fleet ballistic missile accuracy using-----	13 275
Decoy applications, Development of an unconventional reentry configuration for-----	12	24	Infrared SAM defense possibility-----	81-2 49
Defense against the U.S. cruise missile Defense Support Program-----	82-3	98	Infrared sensors, Exoatmospheric long-wavelength-----	14 219
Deployment demonstration program-----	82-2	248	Infrared systems, Future satellite-based-----	82-3 111
Detection of stationary tactical units using MTI radar-----	81-1	79	L <sub>2</sub> based technology for ballistic missile defense, Long wavelength-----	15 1
Digital sidelobe canceller—an analysis of field test results-----	82-1	139	Insensitive high explosives and propellants-----	13 469
Distributed jamming system (DJS)-----	81-1	180	Integrated adaptive array and spread spectrum modem ECCM test program-----	82-1 88
			IS: autonomous acquisition, Considerations in-----	12 171
			IR fly's eye threat warning sensor, Temporal clutter processing analysis for-----	13 173
			Jammer applications against C <sup>3</sup> systems, Expendable-----	81-1 163
			Jamming AAA and SAM communications links, Effectiveness of-----	81-1 271
			Jamming system (DJS), Distributed-----	81-1 188
			Jam-resistant secure voice communication (JRSVC)-----	12 149
			JTIDS adaptive array antenna system for F 15 aircraft, Design and performance of-----	82-1 223
			Laser battle station, Space-----	14 248
			Laser communications, Strategic-----	13 115

UNCLASSIFIED

	Vol	Page			
<i>Laser engagement analysis, Ground-based</i> .....	11	88	OTH .....	11	289
<i>Lasers for ballistic missile defense, High-energy</i> .....	12	250	<i>Over-the-horizon targeting—part I: Tomahawk status and history, Tomahawk antiship cruise missile and</i> .....	13	379
<i>Laser intercept system concept study, Exoatmospheric</i> .....	15	147	<i>Particle beam concepts, Charged</i> .....	14	87
<i>Laser systems in a space defense role, Methodologies for analyzing</i> .....	12	80	<i>Phased array antennas for protection of ASW data links, Adaptive control</i> .....	82-1	198
<i>Laser technology, Status report on CW chemical</i> .....	12	261	<i>Phased array lens analysis for space-based radar applications</i> .....	82-2	16
<i>Laser weapons: why and when, High-energy</i> .....	12	390	<i>Phased array radiating membrane development program, Interim results of the</i> .....	82-2	52
<i>LES-8/9 program</i> .....	11	369	<i>Precision guided munitions, Armor response</i> .....	11	61
<i>Liquid propellant gun programs, DARPA</i> .....	79-1	195	<i>Precision guided munitions, Pilot's view of</i> .....	14	209
<i>Long wavelength infrared technology for ballistic missile defense</i> .....	15	1	<i>Precision guided munitions (PGM)—rationale and issues</i> .....	14	212
<i>Low-altitude defense for MX</i> .....	82-3	171	<i>[Precision] guided submissiles technology and applications, Terminally</i> .....	11	252
<i>Low-sidelobe space-fed lens antenna transform feed study</i> .....	82-2	148	<i>Precision guided weapons approach to command and control countermeasures</i> .....	11	231
<i>Manned-interceptor defense problems</i> .....	81-2	58	<i>Propagation effects, Radar</i> .....	81-2	19
<i>Maritime nuclear war and naval force structure considerations</i> .....	15	86	<i>Propellants, Insensitive high explosives and</i> .....	13	469
<i>Methodologies for analyzing laser systems in a space defense role</i> .....	12	80	<i>Quality versus quantity in tactical fighter forces</i> .....	13	285
<i>MICNS, Analysis and measurement of a multiple-loop sidelobe canceller for</i> .....	82-1	169	<i>Radar—a new highly mobile radar concept for artillery location and air surveillance, Hemispheric coverage</i> .....	12	364
<i>Microwave transceiver module, GaAs monolithic</i> .....	82-2	126	<i>Radar: a review and update, Bistatic</i> .....	13	137
<i>Microvector processor: a programmable digital signal processor technology for remote ASW surveillance applications</i> .....	13	352	<i>Radar application, Advanced on-board signal processor (AOSP) in a space-based</i> .....	82-2	229
<i>Missile warning and attack assessment radars</i> .....	82-3	116	<i>Radar application, Phased array lens analysis for space-based</i> .....	82-2	16
<i>Mobility tradeoff, Armor and</i> .....	79-1	50	<i>Radar clutter effects</i> .....	81-2	33
<i>Modeling air combat maneuvering engagements</i> .....	12	196	<i>Radar, Detection of stationary tactical units using MTI</i> .....	81-1	79
<i>Monolithic silicon-on-sapphire radar transceiver component development</i> .....	82-2	113	<i>Radar, ECM/ECCM interactions in space-based</i> .....	82-2	190
<i>MTI radar, Detection of stationary tactical units using</i> .....	81-1	79	<i>Radar, Enigma of the AN/FPS-95 OTH</i> .....	11	289
<i>Munitions, New initiatives in conventional</i> .....	11	409	<i>Radar environmental interactions, Space-based</i> .....	82-2	179
<i>Munitions, Pilot's view of precision guided</i> .....	14	209	<i>Radar for atmospheric tactical warning, Space-based</i> .....	82-3	253
<i>MX, Low-altitude defense for</i> .....	82-3	171	<i>Radar in the NORAD environment, Space-based</i> .....	82-2	1
<i>MX system, Ballistic missile defense of a multiple airport</i> .....	11	418	<i>Radar, Over the-horizon backscatter</i> .....	82-3	214
<i>Naval force structure considerations, Maritime nuclear war and</i> .....	15	86	<i>Radar propagation effects</i> .....	81-2	19
<i>Night attack, Electro-optical pods for single-seat</i> .....	13	1	<i>Radar sidelobe cancellers, Recent developments in</i> .....	82-1	152
<i>Night fighting capabilities, Armored fighting vehicles current capabilities and limitations</i> .....	79-1	67	<i>Radar, Single-layer microstrip membrane for space</i> .....	82-2	88
<i>NORAD environment, Space-based radar in the</i> .....	82-2	1	<i>Radar system performance v target motion resolution processing, Enhanced</i> .....	11	355
<i>Nuclear artillery battery coverage, Evaluation of</i> .....	13	479	<i>Radar transceiver component development, Monolithic silicon-on-sapphire</i> .....	82-2	113
<i>Nuclear dust clouds, Late-time optical effects of</i> .....	15	51	<i>Radar's ability to see aircraft and ALCM targets in land clutter, Ground verification of space-based</i> .....	82-2	274
<i>Nuclear interface in Soviet strategy, Conventional</i> .....	12	43	<i>Radars, Classification experiments with simulated upgraded BMEWS</i> .....	13	60
<i>Null formation using feed control in completely overlapped subarray antennas</i> .....	82-2	134	<i>Radars in support of tactical operations, Application of tested</i> .....	12	209
<i>Nulling achievable, Verification of the adaptive</i> .....	82-2	227	<i>Radars, Missile warning and attack assessment</i> .....	82-3	116
<i>Nulling processor, Performance evaluation of a broadband UHF adaptive</i> .....	82-1	9	<i>Radiation heating of satellite systems</i> .....	11	26
<i>Optical effects of nuclear dust clouds, Late-time</i> .....	15	51	<i>Radio electronic combat capability, Soviet</i> .....	81-1	318
<i>Over-the-horizon backscatter radar</i> .....	82-3	214			
<i>(Over-the-horizon) radar, Enigma of the AN/FPS-95</i>					

UNCLASSIFIED

	Vol	Page		Vol	Page
<i>Priority configuration for decoy applications. Development of an unconventional</i>	72	24	parison of U.S. and	79-1	15
<i>River Fire system. Functional description of the</i>	81-1	243	<i>Soviet troop control. Automation in</i>	11	332
<i>SAM defense possibility. Infrared</i>	81-2	49	[ <i>Soviet</i> ] USSR weapon systems introduced annually, 1960-1981. Number of new and improved U.S. and	14	154
<i>SATCOM uplinks. Adaptive array considerations for TDMA</i>	82-1	25	<i>Soviet weapon system design practices. U.S. and</i>	13	405
[ <i>Satellite</i> ] LES-8/9 program	11	369	<i>Soviet weapons design. Character and style of</i>	12	319
<i>Satellite-based infrared systems. Future</i>	82-3	111	[ <i>Space-based antenna</i> ] Deployment demonstration program	82-2	248
<i>Seek T-16 advanced development model tests. A comparison of TACOM II simulation model results with</i>	13	36	<i>Space-based radar antenna design verification study</i>	82-2	261
<i>Sensor. Temporal clutter processing analysis for IR fly's eye threat warning</i>	15	173	<i>Space-based radar application. Advanced on-board signal processor (AOSP) in a</i>	82-2	229
<i>Sensors. Exoatmospheric long-wavelength infrared</i>	14	219	<i>Space-based radar application. Phased array lens analysis for</i>	82-2	16
<i>Sensors for atmospheric tactical warning. Air defense and warning—space-based infrared</i>	82-3	233	<i>Space-based radar environmental interactions</i>	82-2	179
<i>Ship classification development at the Naval Weapons Center. Automatic</i>	13	327	<i>Space-based radar for atmospheric tactical warning</i>	82-3	253
<i>Sidelobe canceller—an analysis of field test results. Digital</i>	82-1	139	<i>Space-based radar in the NORAD environment</i>	82-2	1
<i>Sidelobe canceller for MICNS. Analysis and measurement of a multiple-loop</i>	82-1	169	<i>Space-based radar's ability to see aircraft and ALCM targets in land clutter. Ground verification of</i>	82-2	274
<i>Sidelobe cancellers. Recent developments in radar</i>	82-1	152	<i>Space defense role. Methodologies for analyzing laser systems in a</i>	12	86
<i>Signal acquisition system for C<sup>3</sup> countermeasures</i>	81-1	107	<i>Space en . . . . . The strategic implications of modifying the</i>	15	135
<i>Signal processing—research and technologies which have application to sonar. Soviet digital</i>	12	333	<i>Space laser battle station</i>	14	248
<i>Signal processor (AOSP) in a space-based radar application. Advanced on-board</i>	82-2	229	<i>Space radar. Single-layer microstrip membrane for</i>	82-2	88
<i>Signal processor technology for remote ASW surveillance applications. Microvector processor a programmable digital</i>	13	352	<i>Spectrum spreading and main-beam antenna nulling to wideband data reception. Application of</i>	82-1	187
<i>Silicon-on-sapphire radar transmitter component development. Monolithic</i>	82-2	113	<i>Spread spectrum modem ECCM test program. Integrated adaptive array and</i>	82-1	86
<i>Silicon-on-sapphire transmitter module components for L-band and S-band</i>	82-2	121	[ <i>Strategic defense</i> ] Systems and options. the development view	82-3	14
<i>Simulation model of the cruise action system</i>	13	90	<i>Strategic laser communications</i>	13	315
<i>Simulator-aided design and evaluation of a communications jammer</i>	81-1	252	<i>Submarine air defense missile system technology program</i>	11	159
<i>Single-layer microstrip membrane for space radar</i>	82-2	84	<i>Subsonic technology and applications. Terminally guided</i>	11	252
<i>Sonar. Soviet digital signal processing research and technologies which have application to</i>	12	333	<i>Surface-to-air missile systems against cruise missiles—different views. Effectiveness of terminal</i>	12	307
<i>Soviet air defenses—candidate second-generation cruise missile characteristics. Cruise missile penetration of</i>	12	113	[ <i>Surveillance</i> ] Defense Support Program	82-3	98
<i>Soviet air defenses—nationwide force analysis. Cruise missile and bomber penetration of</i>	11	107	<i>Survivability. Contributions of agility to</i>	79-1	141
<i>Soviet digital signal processing research and technologies which have application to sonar</i>	12	333	<i>Survivability. Bomber force launch</i>	11	438
<i>Soviet Navy command, control, and communications. Countering</i>	81-1	47	<i>TACOM II simulation model results with Seek T-16 advanced development model tests. A comparison of</i>	15	36
<i>Soviet options in defense against the air-launched cruise missile. Analysis of future</i>	14	1	<i>Tank armor evolution</i>	79-1	115
<i>Soviet radio electronic combat capability</i>	81-1	318	[ <i>Target</i> ] acquisition. Considerations in IR autonomous	12	171
<i>Soviet strategic warning and defense</i>	82-1	25	[ <i>Target</i> ] identification. Meeting antiradiation requirements in tactical air	11	459
<i>Soviet strategy. Conventional nuclear interface in</i>	12	43	<i>Target location and classification identification. Command, control, and communications countermeasures (C<sup>3</sup>CM)</i>	81-1	58
<i>Soviet tanks and tank-related developments. Com-</i>			<i>Target motion resolution processing. Enhanced radar system performance by</i>	11	355
			<i>Technology for defense. Effective use of advanced</i>	14	59
			[ <i>Technology</i> ] Overview of the technical defense problems	81-2	3

UNCLASSIFIED

	Vol	Page			
<i>Terminal homing—providing new, nonnuclear options, Autonomous</i> -----	11	202	<i>Warning and defense: the operational view, Role of strategic</i> -----	82-3	3
<i>Terranally guided submarines technology and applications</i> -----	11	252	<i>Warning and defense, Soviet strategic</i> -----	82-3	25
<i>TDMA SATCOM uplinks, Adaptive array considerations for</i> -----	82-1	25	<i>Warning/attack assessment, Ballistic missile threat, a tactical</i> -----	82-3	87
<i>Terran masking effects</i> -----	81-2	9	<i>Warning—space-based infrared sensors for atmospheric tactical warning, Air defense and</i> -----	82-3	233
<i>Tomahawk antiship cruise missile and OTH targeting—part I: Tomahawk status and history</i> -----	13	379	<i>Warning, Space-based radar for atmospheric tactical</i> -----	82-3	253
<i>TW/AA systems, Potential future</i> -----	82-3	146	<i>Warsaw Pact C<sup>2</sup>, Counter mission analysis of</i> -----	81-1	33
<i>U.S. and Soviet weapon system design practices</i> -----	13	405	<i>Warsaw Pact command, control, and communications systems, Approaches to the countering of</i> -----	81-1	5
<i>U.S. and USSR weapon systems introduced annually, 1960-1981, Number of new and improved</i> -----	14	154	<i>Weapon system design practices, U.S. and Soviet</i> -----	13	405
<i>USSR weapon systems introduced annually, 1960-1981, Number of new and improved U.S. and</i> -----	14	154	<i>Weapon systems introduced annually, 1960-1981, Number of new and improved U.S. and USSR</i> -----	14	154
<i>Verification of the adaptive nulling achievable</i> -----	82-2	227	<i>Weapons design, Character and style of Soviet</i> -----	12	319
<i>Warning and attack assessment, Overview of missile</i> -----	82-3	73	<i>XM-1, main battle tank of the future</i> -----	79-1	91
<i>Warning and attack assessment radars, Missile</i> -----	82-3	136			