

内部资料

相控阵雷达资料累积索引

（1960—1987年）

信息获取与处理技术情报交流中心

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目 录

1960-1975/1976-1987

一、雷达总体	1	/	77
1. 综述	1	/	77
2. 雷达总体介绍	2	/	82
3. 信号形式与设计问题	6	/	84
4. 探测精度问题	7	/	84
5. 监测设备	8	/	86
6. 数字技术	8	/	87
7. 可靠性问题	10	/	87
二、天线系统	10	/	87
1. 天线总体	10	/	87
2. 理论与设计	18	/	108
3. 辐射单元	27	/	122
4. 波束形成与控制	29	/	123
5. 阵列排列与馈电系统	33	/	130
6. 互耦与匹配问题	36	/	132
7. 旁瓣抑制	41	/	134
8. 移相和延时技术	43	/	136
9. 频扫天线	55	/	141
三、测试技术	56	/	141
四、发射系统	57	/	145
五、接收系统	59	/	147
六、反干扰	62	/	148
七、数字处理与显示	66	/	150
八、微波固态电路及器件	72	/	154

雷达总体

1. 综述

何时该选用阵列雷达?

When shoud you pick array radars? Space/Aeronautics, 1961, No. 5, pp. 133-137

(雷达技术资料译文, 1965年第7期, 第1—7页)。

阵列雷达——其潜在能力和局限性

Array radars —— survey of their potential and their limitations, Microwave Journal, 1962, No. 2, pp. 67-69

(国际电讯技术动态, 1963年第1期第61, 72页)。

组件太多是阵列雷达的主要问题

Array radar's problem, Electronics, 1963, 12, 6

(雷达技术简讯, 1964年第4期第2—4页)。

奈克-X——洲际导弹防御的新貌

Nike-X — new look in ICBM defence, Ordnance, 1964, 11-12, pp. 281-284

相控阵雷达在军用系统中的作用

The role of the phased array in military systems, Microwave Journal, 1964, No. 8, pp. 88-95

(国际电讯技术动态1965年第2期第78—80页)。

相控阵——未来的发展方向

Phased array — there is a future, Microware Journal, 1965, No. 6, pp. 108-115

雷达——目前的地位和未来的趋向

Radar-present position and future trends, Electronics and Power, 1965, 6, pp. 191-194

相控阵准备斯普林特导弹发射

Array prepares Sprint pop-up flight, Missile and Rockets, 1965, No. 20, p. 22

导弹和空间自动控制的进展

Progress in missile and aerospace automatic control, IEEE Intern. Conv. Rec., 1965, pt. 6, pp. 16-20

相控阵与其它雷达竞争

Phased array vie with other radars, Electronic Design, 1966, No. 13, pp. 46-52

洲际弹道导弹防御: 奈克-X能完成吗?

Defence against the ICBM: Nike-X or never? Interavia, 1966, No. 2, pp. 185-187

战略导弹和防空

Strategic missile and air defense, Space/Aeronautics, 1966, 9, pp. 62-77

战术防空

Tactical air defence, Space/Aeronautics, 1966, 9, pp. 78-92

相控阵雷达最小投资费用预测

Prediction of the minimum investment cost of phased array radar, IEEE Vol. AES-3, 1967, 11, pp. 207-225

(雷达技术译丛, 1970年第1期第69—93页)。

相控阵雷达

Phased arrays for radar, IEEE Spectrum, 1968, No 11, pp. 102-111

(国外电子技术, 1969年第2期第5—12页)。

微波正在进入固态领域

Microwaves are going solid, Electronics Engineer, 1968, 11, pp. 58-64

相控阵雷达的潜力促使研制活动增加

Potential of phased-array radar spurs increasing R & D activity, Electronics, 1968, No. 18, pp. 94-103

分子电子学微型组件用于相控阵雷达

MERA modules — how good in an array? Microwaves, 1969, No. 8, pp. 39-49

(国外电子技术, 1970年第2—3期第36—43页)。

固态在相控阵雷达中的作用

Role of solid state in phased array radars, Microwave Journal, 1969, No. 9, pp. 63-67

(雷达技术译丛, 1970年第1期第23—31页)。

美帝卫兵反弹道导弹系统中的雷达

ABM Radars —— Myth vs Reality, Space/Aeronautics, 1969, 11, pp. 56-64

(国外雷达简讯, 1971年第1期第34—35页)。

相控阵雷达系统综述

Synthesis of phased-array radar systems, RCA Microwave Technology, 1969, pp. 2-7

(国外雷达简讯, 1971年第5期第2—11页)。

雷达技术的一些最新发展

Some recent development in radar techniques, 17th Istituto Internazionale delle Comunicazioni (Italy), 1969, 32 p

卫兵——弹道导弹防御雷达

Safeguard — Ballistic Missile defense radars, Microwave Journal, 1970, No. 3, pp. 54-56

相控阵系统的发展趋势

Trends in phased array systems, Microwave Journal, 1970, No. 9, pp. 8-10

(国外雷达简讯, 1971年第1期第22—23页)。

美帝弹道导弹防御雷达

Ballistic-missile defence radars, IEEE Spectrum, 1970, 3, pp. 32-4

(国外雷达简讯, 1971年第1期第22—34页; 国外电子工程, 1971年第1期第6—16; 国外拦截技术, 1971年第1期第13—20页)。

战术导弹系统雷达

Tactical missile systems radar (SAM-D), Signal, 1970, 1, pp. 66-69

相控阵雷达封装综述

Survey of phased array radar packaging, Proc. of National Electronic Packaging and Production Conf., 1970, pp. 7.1-7.12

弹道导弹防御对相控阵雷达的要求

BMD requirement for phased array radars, Proc. of the Phased Array Antennas Symp., 1970, pp. 6-7

(相控阵天线上集《国外电子技术》1974年增刊2, 第1页)。

固态相控阵雷达的设计、性能和造价考虑

Design, performance and cost considerations for solid-state arrays, Proc. of the Phased Array Antennas Symp., 1970, pp. 43-50

(相控阵天线上集, 《国外电子技术》1974年增刊2, 第30—35页)。

宇宙飞船相控阵技术发展趋势

Technology trends in spacecraft phased arrays, EASCON' 70, pp. 113-120

雷达新技术与设备研制

Influence of the new radar techniques upon operational equipment, Radar and Electronics, spring/summer, 1971, pp. 6-12

(国外电子工程, 1972年2月第1—6页)。

现代雷达技术概述

Radar, IEEE Reviews, 1971, 9, Vol. 118, pp. 1071-1089

(国外雷达简讯, 1972年第3期第2—34页)。

可靠先进固态相控阵雷达研制初步完成

RASSR array comes of age, Microwaves, 1972, No. 8, pp. 36-38

(国外雷达简讯, 1973年第1期第4—13页)。

雷达工程: 进展和展望

Radar engineering: progress and prospect, Electron & Power, 1972, 12, pp. 441-445

空间三维扫描的现代雷达方法概述

Übersicht über moderne Radarverfahren zur dreidimensionalen 13-D1 Raumabtastung Symposium on Radar Technology, 1972, pp. 57, 59-74

苏联及其反弹道导弹系统

Russia and the ABM, Ordnance, 1972, 3-4, pp. 372-374

雷达工程: 进展和展望

Radar engineering: progress and prospect, PIEE, 1973, No. 1, pp. 1-12

雷达工程进展

Advance in radar engineering, VDI-Z, 1973, No. 1, pp. 17-22

固态电子学对雷达系统发展的影响

The impact of solid-state electronics on the development of radar systems, Radio and Electronic Engineer, 1973, No. 1-2, pp. 91-98

(国外雷达简讯, 1973年第16期第2—12页)。

相控阵雷达成本与性能关系的分析

An analysis of cost versus performance relationships for phased array radars, AD 663732, N 68-17916, 1967, 87-p

2. 雷达总体介绍

扇形电扫描雷达系统

Radar systems with electronic sector scanning, J.B.I.R.E., 1958, No. 12, pp. 709-713

(雷达技术资料译文, 1965年第2期)。

相控阵的特性

Properties of phased arrays, PIRE, 1960, No. 10, pp. 1715-1727

(国际电讯技术动态, 1963年第1期第23—35页)。

电扫描阵列雷达

Electronically steerable array radar, Electronic Engineering, 1960, 8, p. 708

(国际电讯技术动态, 1961年第1期第79页)。

波束可控阵列雷达

Steerable array radars, IRE Vol. MIL-5, 1961, No. 2, pp. 80-94

(国际电讯技术动态, 1962年第4—5期第155—171页)。

相控阵雷达的发展

Interest growing in phased array radar, Aviation Week, 1962, 8, 20, pp. 93-95

电扫描阵列雷达

Electronically scanned array radar, Aviation Week, 1961, 7, 24, p. 70

Hyscan 阵列雷达

Hyscan array radar, Sperry Engineering Review, 1962, No. 4, pp. 2-9

卫星跟踪用相控阵雷达

Phased array radars for satellite tracking, IRE Intern. Conv. Rec., pt. 5, 1962, pp. 50-57
(雷达技术资料译文, 1965年第3期)。

电子扇形扫描技术应用于测高雷达系统

Application of electronic sector scanning techniques to height-finding radar systems, PIEE, 1963, No. 11, pp. 1941-1948

宽监视区域内雷达同时观察多目标的新技术

New technique for simultaneous radar observation of multiple targets with broad surveillance region, IEEE Intern. Conv. Rec. pt. 8, 1963, pp. 82-95

(国际电信技术动态, 1964年第10期第46—55页)。

AN/FPS-85 卫星跟踪相控阵雷达

The AN/FPS-85 satellite tracking phased array radar, IEEE vol. AS-2, 1964, 2, pp. 135-138

X波段电扫相控阵

An X-band electronically steerable phased array, Microwave Journal, 1964, No. 2, pp. 43-48

相控阵雷达系统

Phased array radar systems, Radio and Electronic processing in radar, 1964, 7 p

(无线电快报, 1965年第22期第20—24页和第23期第21—24页)。

相控阵雷达系统

Phased array radar systems, Symp. on signal processing in radar, 1964, p. 7

硬点防御实验相控阵雷达

Hardpoint demonstration array radar, IEEE. Vol. AES-2, 1966, No. 6, pp. 286-299

(雷达技术译丛, 1970年第1期第1—16页)。

先进的地面雷达

Advanced ground radar, Space/Aeronautics, 1966, 9, pp. 102-112

宇航辐射计用K波段电扫相控阵雷达

An electronically scanned K-band phased array for spaceborne radiometric applications, WESON' 66

计算机控制的自适应雷达

Computer controlled adaptive radar, PIEE, 1967, No. 7, pp. 869-872

电扫雷达系统的设计

Design of electronic scanning radar systems, PIEE, 1968, No. 11, pp. 171-173

硬点防御相控阵雷达(HAPDAR)

HAPDAR — Operational phased array radar, PIEEE, 1968, No. 11, pp. 1967-1975

大口径目标景象雷达的设计

On design of large aperture radar for target imaging, IEEE Vol. AES-4, 1968, No. 6, pp. 886-892

用多频率工作改善多功能阵列雷达性能

Improved multifunction array radar performance with multifrequency operations EASCON' 68, pp. 52-59

AN-FPS-85 雷达系统

AN/FPS-85 radar system, PIEEE, 1969, No. 3, pp. 324-335

(国外电子技术, 1971年第8期)。

新型自动随机搜索相控阵雷达

A new phased-array radar for automatic random search, Intern. J. Electronics, 1970, No. 4, pp. 365-368

时间扫描阵列雷达

Time scanned array radar, Proc. of the Phased Array Antennas Symp., 1970, pp. 235-239

相控阵仪表控制雷达的试验结果

Test results of a phased array instrumentation radar, First Western Space Congress, 1970, pp. 540-557

(雷达资料, 1972年第1期第1—20页; 国外拦截技术, 1972年第4期第41—51页)。

高效率宇航相控阵

High efficiency spacecraft phased arrays, American IAA Communication Satellite Systems Conference, 1970, pp. 70-425

相控阵雷达

Phased array radar, CATCA Journal, 1971, No. 3, pp. 9-14

可靠而先进的固态相控阵雷达

The RASSR phased array, NAECON' 72, pp. 174-182

L波段机载相控阵

L-band airborne phased array, Electron. Eng., 1972, No. 9, pp. 14-18

X波段有源相控阵雷达Xバンド・アクティブ・フェーズド・アレイ・レーダについて

电子通信学会 宇宙航行エレクトロニクス研究資料, 1972, 13P

低成本机载气象相控阵雷达

A low-cost phased-array airborne weather radar, Electronics and Civil aviation, Intern. Conf., Paris, France, 1972, pp. 292-296

自适应雷达理论

Theory of adaptive radar, IEEE, Vol. AES-9, 1973, No. 2, pp. 237-251

SAM-D 准备发射试验

SAM-D readied for fire tests, AW&ST, 1973, Vol. 98, No. 24, pp. 43-47

无多余阵元的相控阵雷达

Non-redundant phased array radar, Radar-Present and Future, Proc. of the Intern. Conf. 1973, pp. 74-77

(国外电子技术, 1974年第6期第11—13页)。

埃吉斯AN/SPY-1 雷达系统设计有效性

AEGIS AN/SPY-1 radar system design for availability, Proc. of the IEEE Annual Reliability and Maintainability Symp., 1973, pp. 50-60

(国外电子技术, 1974年第6期第1—9页)。

雷达探测和跟踪系统

Radar detection and tracking systems, Artech House, Inc., 1973, 408 p

全息照相矩阵雷达的性能

Performance of a hologram matrix radar, PIEEE 1974, No. 12, pp. 1718-1719

相控阵的成功史: AN/FPS-85 运转六年

The phased array success story: six years of AN/FPS-85 operation, Microwave Symp., Digest, 1974, pp. 6-8; 1974 Intern. IEEE/AP-S Symp. Digest, pp. 357-359

相控阵配置的选择

Selection of phased array configuration, Microwave Symp., Digest, 1974, pp. 9-11; 1974 Intern. IEEE/AP-S Symp. Digest, pp. 360-362

固态相控阵雷达

Solid state phased array radar, Microwave Symp., Digest, 1974, pp. 54-56; 1974 Intern. IEEE/AP-S Symp. Digest, pp. 410-412

AN/TPS-59 天线行式部件设计

The AN/TPS-59 antenna row-board design, Microwave Symp., Digest, 1974, pp. 57-60; 1974 Intern. IEEE/AP-S Symp. Digest, pp. 413-416

TPS-59 阵列雷达电子设备

TPS-59 array electronics, Microwave Symp., Digest, 1974, pp. 62-64; 1974 Intern. IEEE/AP-S Symp. Digest, pp. 423

探测、跟踪和导航雷达技术

Radar techniques for detection tracking and navigation, Proc. of 8th Symp. of AGARD, 1964, 600 p, N67-13921

截获与跟踪组合雷达: 参量研究

Combined acquisition and tracking radar: a parametric study, N68-34242, 1968, 438 p

(雷达情报, 1972年第1期第1—118页)。

相控阵雷达在宇航上的应用

Phased array radar for aerospace applications, N71-13916, 1970, 13p; In AGARD Advanced Radar Systems (N71-13901)

相控阵雷达用跟踪策略介绍

Description of a tracking strategy for phased array radar, N71-13934, 1970, 11p; In AGARD Advanced Radar Systems (N71-13901)

无线电数学研究院正在研制中的相控阵雷达概述

Die konzeption eines vom FFM geplanten elektronischen radarsystems, N72-27183, 1970, 34p

采用卡尔曼滤波目标跟踪方法: 相控阵雷达的一种用途

Zielverfolgung nach Kalman-anwendung auf dektronisches radar, N72-27184, 1971, 87p

相控阵和复式雷达研究动态

Phased array and multiple radar research activities, In German, N72-28182, 1972, 102 p

相控阵中布线设计

Cabling design for phased arrays, N73-23316, 1972, 8 p

自适应地面相控阵

Adaptive ground implemented phased array, N73-27841, 1973, 5 p

自适应地面相控阵

Adaptive ground implemented phased array, N74-10145, 1973, 101 p

天线阵组件的机架结构

Chassis construction for an antenna array module, N74-12923, 1971, 25 p. (in Swedish)

相控阵雷达研究

Phased array radar studies, AD 249470, PB 154153, 1960, 238 p

相控阵雷达研究

Phased array radar studies, AD 271724, 1961, 319 p

相控阵雷达研究

Phased array radar studies AD 419471, AD 417572, 1963, 221 p

(雷达技术译丛, 1971年第1期)。

AN/FPS-85 空间跟踪雷达

AN/FPS-85 space track radar, AD420108, 1963, 18 p

相控阵研究

Phased array study, AD 422210, 1963, 29 p

相控阵研究

Phased array study, AD 428897, 1964

AN/FPS-85 空间跟踪雷达

AN/FPS-85 spacetrack radar, AD 600660, 1964, 204 p

相控阵研究

Phased array study AD 601203, 1964, 67 p

相控阵研究

Phased array study, AD 611582, 1965, 70 p

相控阵技术研究

Investigation of phased array techniques, AD 613644, N65-22344, 1965, 68 p

相控阵研究

Phased array study, AD 614921, 1965, 68 p

相控阵雷达研究

Phased array radar studies, AD 629363, 1965, 346 p

相控阵雷达的性能特点

Performance characteristics of radar phased arrays, AD630819, N66-27438, 1965, 29 p

轻量的电子扫描雷达

A lightweight electronic scanning radar, AD 713583, 1970, 11 p

先进的雷达系统

Advanced radar systems, AD715485, 1970, 529 p

电扫雷达系统的定时产生器

A timing generator for electronically scanned radar systems, AD720533, 1971, 52 p

军用卫星通信相控阵控制

MIL Satcom phased-array control, AD738303, 1972, 110 p

相控阵仪表控制雷达的设计分析

Phased array instrumentation radar (PAIR) Design analysis, AD 738578, 1971, 142 p

实验阵列雷达系统的模拟研究

EAR (Experimental array radar) system simulation studies, AD 749501, 1972, 201 p

核防御局609工程海岛相控阵雷达

DNA Project 609 island radar phased array, AD 751054, 1972

实验阵列雷达试验台

Experimental array radar (EAR) test bed, AD 758139, 1972, 33 p

实验阵列雷达模拟计划使用者手册(第一卷)

User's manual for EAR simulation programs, Vol. 1, AD 758922, 1973, 41 p

实验阵列雷达第二阶段研究计划

Experimental array radar (EAR) second-phase development plan, AD 763171, 1973, 34 p

自适应雷达技术, 第一卷: 自适应子阵雷达的计算机分析

Adaptive radar techniques, Vol. 1: Computer studies of adaptive subarray radar, AD 767209, N74-12880, 1973, 138 p

自适应雷达技术, 第二卷: 自适应阵列角跟踪

Adaptive radar techniques, Vol. II, Angle tracking with an adaptive array, AD 767210, N74-12881 1973, 51 p

超宽带相控阵

Ultra-wideband phased arrays, AD 769965, 73, 72 p

多目标跟踪研究

Multiple target tracking study, AD 77857, N74-28682, Apr. 74, 73 p

自适应相控阵雷达系统

Adaptive phased array radar systems. AD 807444, 1967, 98 p

多目标测量设备研究

Multiple target instrumentation study, AD 832200, 1968

相控阵实验设计研究

Phased array experimental design study, AD 849131

相控阵实验设计研究

Phased array experimental design study, AD 849768, 1969

时间扫描阵列雷达试验

Time scanned array radar experiment, AD 875373, 1970, 207 p

多目标探测和跟踪

Detection and tracking of multiple targets, USP 3242497

多目标探测相控阵雷达系统

Multiple object detecting radar system using phased array, USP 326327

毫米波相控阵

Millimeter phased array, USP 3277489

电扫雷达系统

Electronic scanning radar system, USP 3286260

相控阵系统

Phase array system, USP 3295138

电扫雷达系统

Electronic scanning radar system, USP 3308456

- 相控阵系统
Phased array systems, USP 3309706
- 多目标跟踪系统
Multiple target tracking system, USP 3323127
- 多目标跟踪系统
Multiple target tracking system, USP 3323128
- 相控阵系统
Phased array system, USP 3400405
- 弹性波传输用换能相控阵
Phased transducer arrays for elastic wave transmission, USP 3401360
- 电扫储能阵列脉冲雷达系统
Electronically scanned storage array pulse radar system, USP 3487408
- 时间扫描阵列雷达
Time scanned array radar, USP 3518669
- 相位多路电扫系统
Phase multiplying electronic scanning system, USP 3553704
- 自控阵列转发器
Self-steering array repeater, USP 3680108
- 相控阵
Phased array, USP 3680109
- 采用时间分割的空间分集相控阵再传输系统
Space diversity phased array retransmission system using time division, USP 3696421
- 多目标环境中的探测
Detection in a multiple target environment, USP 3721979
- 相控阵系统
Phased array system, USP 3775769
- 机载转换阵列雷达系统
Airborne switched array radar system, USP 3833904
- 机载可转换阵列雷达系统的操纵方法和设备
Method and means for operating an airborne switched array radar system, USP 3858206.
- 3. 信号形式与设计问题**
- 兼有高距离分辨率和高速变分辨率的雷达信号设计
Design of radar signals having both high range resolution and high velocity resolution, BSTJ, 1960, No. 4, pp. 809-820
(国际电讯技术动态, 1961年第5期第40—44页)。
- 由分析空间传播的回波信号得出的雷达目标回波的幅度、角度和多卜勒闪烁
Radar target amplitude, angle, and doppler scintillation from analysis of the echo signal propagating in space, IEEE Vol. MTT-16, 1968, 9, pp. 715-728
- 锯齿波调频信号的设计
Design of zigzag FM signals, IEEE, Vol. AES-4, 1968, 9, pp. 680-692
- 雷达信号极化选择问题
К вопросу о поляризационной селекции радиолокационных сигналов, Радиотехника и Электроника, 1969, № 3, pp. 434-440
- 雷达跟踪脉冲的最佳分配
Optimal allocation of tracking pulses for an array radar, IEEE, Vol. AC-15, 1970, 2, pp. 81-88
- 雷达波形选择：一种简化方法
Radar waveform selection: A simplified approach, IEEE, Vol. AES-7, 1971, No. 6, pp. 1078-1086
(雷达技术译丛, 1973年第3期第99—108页)。
- 用巴克码抑制距离旁瓣
Range sidelobe suppression for Barker codes, IEEE, Vol. AES-7, 1971, No. 6, pp. 1087-1092
- 目标跟踪脉冲编排
Target track pulse scheduling, IEEE, Vol. AES-7, 1971, No. 6, pp. 1113-1122
(雷达技术译丛, 1975年第2期第96—111页)。
- 雷达脉冲编排
Radar pulse scheduling, 4th Hawaii Intern. Conf. system, N66-35126, PB 173020, 1966, 135p
- 宽带随机信号雷达系统的分析
Analysis of a wideband random signal radar system, N 66-35126, PB 173020, 1966, p. 135
- 随机信号雷达
Random signal radar, N67-35915, 1967, 165 p
- 利用模糊函数作误差准则的最佳雷达信号
Optimum signal for radar utilizing the ambiguity function as the error criterion, N68-36148, 1967, 135 p
- 雷达信号的设计
The design of radar signals, AD 617711, 1965, 201 p
- 雷达模糊度分析
Radar ambiguity analysis, AD 653404, 1967, 36 p
- 时域信号特征测量技术
Time domain signature measurement techniques, AD 691460, 1969, 60 p

目标信号特征识别滤波器的最佳化

Target signature discrimination filter optimization,
AD 755906, 1972, 17 p

雷达目标的统计模型

On statistical modeling of radar targets, AD 753936,
1972, 139 p

频谱信号特征的测量和分析

Measurement and analysis of spectral signatures,
AD 773181, 1973, 257 p

4. 探测精度问题

雷达测量的理论精度

Theoretical accuracy of radar measurements, IRE,
Vol. ANE-7, 1960, No. 4, pp. 123-127

(国际电讯技术动态, 1965年第2期第23—30页)。

相控阵雷达的角精度

Angular accuracy of phased array radar, IR, Vol.
AP-9, 1961, No. 3, pp. 268-275

(国际电讯技术动态, 1966年第5期第39—47页)。

测量弹道导弹轨道的精度

Accuracy of measuring ballistic missile trajectories, ARCI. 1961, No. 4, pp. 523-526

单脉冲相控阵跟踪精度研究

Study of tracking accuracy in monopulse phased arrays, IRE, Vol. AP-13, 1962, No. 3, pp. 237-246

(国际电讯技术动态, 1963年第1期第36—46页)。

电扫天线阵的角精度

Угловая точность антенн с немеханическим движением луча, ИВУЗ Радиотехника, 1962, 2, p. 179

(国际电讯技术动态, 1963年第1期第52—58页)。

具有可定轨道目标的距离和角度预测误差

Range and angle prediction tracking of objects with definable trajectories, AIAA Journal, 1964, 3, pp. 557-559

阵列天线系统的空间模糊度和分辨率

Spatial ambiguity and resolution for array antenna systems, IEEE, Vol. MIL-9, 1965, No. 3-4, pp. 229-236

单脉冲相控阵中由具有非线性传递特性的模拟移相器产生的系统跟踪误差

Systematic tracking inaccuracy in monopulse phased arrays produced by analog phase shifters with non-linear transfer characteristics, IEEE, 1967, No. 6, pp. 1091-1092

相控阵雷达受测量仪表所限的角测量误差的空间统计特性

Spatial statistics of instrument-Limited angular measurement errors in phased array radars, IEEE, Vol. AP-21, 1973, No. 4, pp. 524-532

利用脉冲间产生频移的方法获得高距离分辨率

High range resolution by means of pulse to pulse frequency shifting, EASCON' 69, pp. 47-59

磁通监视提高相控阵雷达系统的精度

Flux monitoring boosts accuracy of phased array radar systems, Electronics, 1970, No. 24, pp. 77-80
(电子技术动态, 1972年第2期第1—9页)。

线阵的方位精度

Bearing accuracy with linear arrays, IEEE, Intern. Conf. Eng. in Ocean Environ., 1970, pp. 130-132

线阵的方位估值误差

Bearing estimation error with a linear array, IEEE, Vol. AU-19, 1971, No. 2, pp. 147-157

平面相控阵的波束指向误差

Planar phased array beam-pointing errors, IEEE, 23rd Annual Southwestern conf. and Exhibition, SWIECO, 1971, pp. 22-23

平面相控阵波束指向误差

Beam-pointing errors of planar phased arrays, IEEE, Vol. AP-21, 1973, No. 2, pp. 199-202

相控阵在角调制系统中产生的失真

Distortion generated in angle-modulation systems by phased arrays, IEEE Vol. AES-9, No. 5 1973, pp. 753-757

平面相控阵间距栅格对控相精度的关系

Dependence of the phase-steering accuracy on the spacing grid of a planar phased-array, Frequenz, 1973, No. 6, pp. 138-141

用单脉冲比幅降低相控阵的量化相位误差

Reduction of quantization phase errors in phased arrays with monopulse amplitude comparison, Frequenz, 1973, No. 12, pp. 326-329

天线阵可能的分辨能力

О потенциальной разрешающей способности антенных решеток, Радиотехника и Электроника, 1973, № 3, pp. 518-523

相控阵天线的测向精度

Точность амплитудной пеленгации фазированными антенными решетками, ИВУЗ Радиоэлектроники, 1973, № 2, pp. 23-27

雷达距离分辨率和信噪比与相控阵带宽的关系

Relation of radar range resolution and signal-to-noise ratio to phased-array bandwidth, IEEE Vol. AP-22, May 1974, pp. 418-426

用相控阵进行比幅测向的角精度

Angular accuracy of amplitude direction finding by means of phased arrays, N74-26662, 1973, 7 p

雷达高分辨率和远程技术：注释书目

High-resolution and long-range techniques for radar application, An annotated bibliography, AD 273074, 1962, 84 p

雷达分辨率问题的定量研究

A quantitative examination of the radar resolution problem, AD 295573, 1962, 41 p

相控阵雷达的角跟踪精度

Angle tracking accuracy of phased array radars, AD 407506

多信号环境中雷达的精度和分辨力

Radar accuracy and resolution in a multiple-signal environment, AD 437937, 1964, 88 p

雷达信号的精度与分辨力问题

On the accuracy and resolution of radar signals, AD 601986, 1964, 44 p

目标分辨力：现代雷达的能力与主要限制

Target resolution: Capabilities of modern radar and fundamental limits, AD 605221, 1964, 54 p

有源阵列系统的相位误差分析

Phased error analysis for an active array system, AD 630465, 1966, 38 p

提高脉冲雷达分辨力的方法

Methods of increasing resolution in a pulse radar, AD 703010, 1969, 13 p

误差分析评述

A survey of error analysis, AD 746454, 1971, 67 p

单脉冲雷达目标跟踪误差的研究

Investigation of target tracking errors in monopulse radars, AD 748428, N73-13175, 1972, 27 p

相控阵雷达受测量仪表所限的测角误差的空间统计特性

Spatial statistics of instrument-limited angular measurement errors in phased array radar, AD 754922, 1972, 65 p

采用自动平均技术提高分辨力的天线阵

Antenna array employing an automatic averaging technique for increased resolution, USP 3387301

电扫天线波束的指向精度

Pointing precision of an electronic scanning antenna beam, USP 350042

5. 监测设备

相控阵雷达监控设备的相位校正电路的稳定性分析

Stability analysis of a phase correction scherae in the monitor and control equipment of a phased array radar, IEEE, Vol. AES-3, 1967, 11, pp. 236-248
(雷达技术译丛, 1973年第7期)。

具有线形调制器的雷达发射机中负载波形的监控

Monitoring the load waveform in radar transmitters with a line modulator, Alta Frequenza, 1969, 4, pp. 261-271

分支馈电阵列雷达的时分测试、操作和修理

Time shared test, operation, & repair of corporate fed array radars, IEEE System, Man & Cybern. Group Annu. Symp. Rec. pp. 341-347

大型相控阵中故障单元定位法

Method of locating defective elements in large phased arrays, IEEE, 1971, No. 6, pp. 1029-1030

雷达性能监控

Radar performance monitoring, Sperry Rand Engineering Review, 1971, No. 3, pp. 36-41

监控相控阵天线参量的方法

Методы контроля параметров фазируемой антенны-решетки, Электросвязь, 1971, № 10, pp. 50-55

相控阵雷达组件的自动测试设备

Automated test equipment for phased array modules, IEEE, Vol. MTT-20, 1972, No. 1, pp. 10-17
(雷达技术译丛, 1974年第2期)。

监视天线阵辐射元电路参数的系统

Контроль параметров трактов излучателей антенны-решетки, Электросвязь, 1972, № 12, pp. 45-48

新改革是全自动测试的关键

Innovations are key to fully automated testing, Microwaves, 1973, No. 6, pp. 54-56, 58
(国外雷达简讯, 1974年第8期)。

天线阵调谐方法

Method for antenna array tuning, USP 3249941

相控阵天线测试方法和装置

Method and apparatus for testing phased array antennas, USP 3378846
(国外仪电参考, 1971年第12期)。

接收通道阵列产生测试信号的系统

System for generating test signals for an array of receiver channels, USP 3471855

6. 数字技术

数字雷达技术

Digital radar techniques, Sperry Engineering Review, 1962, No. 4, pp. 10-12

雷达中数字式数据处理的讨论

Digital data processing consideration in radar, Radio & Electronic Engineer, 1964, 1, pp. 75-83
(雷达专题译丛四, 雷达数据自动加工技术第二集, 1964年)。

数字滤波器中量化噪声的影响

Effect of quantization noise in digital filters, AFIPS Conf. Proc., 1966, Vol. 28, pp. 213-219

频域数字滤波器设计技术

Digital filter design techniques in frequency domain, IEEE, 1967, No. 2, pp. 149-171

阵列雷达的数字系统

Digital systems for array radar, AFIPS Conf. Proc., 1967, pp. 541-546

容易实现的实时数字数据滤波器

Easily implemented, real-time, digital-data filter; IEEE Region III Convention, Proc., 1967, pp. 233-239

数字滤波器概论

Introduction to digital filters, IEEE, Vol. EMC-10, 1968, No. 2, pp. 210-220

数字雷达系统

Digital radar systems, Electronic progress, 1968, No. 1, pp. 2-4

数字滤波器的统计研究

Statistical investigations of digital filters, Elektronische Datenarbeitung, 1969, No. 11, pp. 514-525

数字技术促进了战术雷达

Digital techniques advance tactical radar, Westinghouse Eng., 1971, No. 5, pp. 147-155

现代雷达中的数字控制

Digital control in modern radar, EASCON' 71, pp. 200-207

(国外雷达简讯, 1973年第11期第2—9页)。

有限寄存器长度对数字滤波器及快速付里叶变换的影响
Effects of finite register length in digital filtering and the fast Fourier transform, IEEE, 1972, No. 8, pp. 957-976

相控阵的数字跟踪

Digital tracking with phased arrays, Joint Automatic Control Conf. 13th, 1972, pp. 535-539

数字滤波器综合计划

Digital filter synthesis program, N67-39750, 1967, 46 p

数字滤波器

Digital filters, N70-20579, 1969, 178 p

数字滤波器原理概论

An introduction to the theory of digital filters, N74-19789, Mar. 72, 31 p

数字滤波器中的相位控制和相位减少

Phase control and phase minimization in digital filters, N74-27706, 1974, 254 p

数字滤波器设计技术

Digital filter design techniques, AD 627146, 1965, 71 p

用褶积近似法实现高速数字滤波

High speed digital filtering by convolution approximation, AD 652877, 1967, 21 p

数字滤波器中的量化效应

Quantization effects in digital filters, AD 706862, 1969, 96 p

数字滤波器研究

A study of digital filters, AD 710381, 1969, 130 p

非循环数字滤波器设计的新方法

A new technique for the design of non-recursive digital filters, AD 717163, 1970, 15 p

根据频谱特性综合数字滤波器

Synthesis of digital filters from frequency spectrum characteristics, AD 721571, 1970, 96 p

最佳强制阶数字滤波器

Optimum constrained order digital filters, AD 753119, 172, 60 p

数字匹配滤波器中抖动的影响

The action of dither in digital matched filters, AD 753808, 1972, 25 p

实用数字滤波器设计

Practical digital filter design, AD 754032, 1972 36 p

数字匹配滤波器中干扰的影响

Interference effects in digital matched filters, AD 756841, 1972, 79 p

数字匹配滤波器中抖动的影响

The action of dither in digital matched filters, AD 757013, 1973, 26 p

非循环数字滤波器的统计设计

Statistical design of nonrecursive digital filters, AD 764595, 1973, 41 p

雷达信号处理用循环数字滤波器的设计和分析

Recursive digital filter design and analysis with applications to radar processing, AD 766689, 1973, 109 p

数字滤波器设计的实现

Hardware implementation of digital filters, AD 755657, 1972, p. 78

噪声降低的非循环数字滤波器

Noise-reducing, nonrecursive digital filters, AD 769874, 1973, 45 p

数字调制增强研究

Digital modulation enhancement study, AD 755939, 1973, 95p

数字雷达跟踪系统

Digital radar tracking systems, USP 3246324

(雷达电子译丛, 1971年第1期第55页)。

7. 可靠性问题

电路设计对系统可靠性的影响

Effect of circuit design on system reliability, IRE, Vol. RQC-10, 1961, No. 1, pp. 12-18

系统可靠性估计问题

On estimation of system reliability, Proc. of IRE Nat. Aerospace Electron. Con., 1961, pp. 262-266

故障对相控阵雷达系统的影响

Effects of failure on phased-array radar systems, IEEE, Vol. R-15, 1966, No. 1, pp. 22-32

维护性能对相控阵雷达系统设计的影响

Maintainability impact on system design of a phased array radar, IEEE Annual Conf. on Electronic Reliability, Conf. Record, 1966

相控阵雷达系统的维护性能

Maintainability of phased array radar systems, IEEE, Vol. R-16, 1967, No. 1, pp. 61-66

空间环境中元件和电子系统的可靠性

Reliability of components & electronic systems in a space environment, Calculation of radiation does in space; Centre D'etudes et de Recherches en Technologie Spatiale, European Symposium, France, Feb. 1968

可靠性预测的计算精度

Accuracy of calculations of reliability predictions, L'onde Electrique, 1969, No. 5, pp. 519-527

相控阵中单元故障的影响

フェイズドテレイの素子の故障が放射特性に与える影響, 電子通信学会論文誌B, 1973, №6, PP・237-243.

无线电电子设备可靠性和效率的计算, 手册

Calculating the reliability and efficiency of radio electronic apparatus: A handbook AD 683581, 1968, 162p

二. 天 线 系 统

1. 天线总体

离散单元扫描天线阵

Scanning antenna arrays of discrete elements, IRE, Vol. AP-7, 1959, No. 4, pp. 435-436

电扫圆形天线阵

Electronically scanned circular antenna array, IRE Intern. Conv. Rec., pt. 1, 1960, pp. 41-47

电扫描天线的最近进展

The recent development of electronically scanned antenna, Proc. of 4th Nat. Conv. on Military Electronics, 1960, pp. 30-34

(国际电讯技术动态, 1961年第9期)。

电子扫描天线概述

Survey of electronically scanned antennas, Microwave Journal, 1960, No. 12, pp. 67-72; 1961, No. 1, pp. 57-64

(国际电讯技术动态, 1963年第1年第2—16页)。

电控 S 波段阵列

Electronically steerable S-band array, IRE, Vol. AP-9, 1961, No. 1, pp. 107-109

机电扫描槽波导天线阵

Electromechanically scanned trough waveguide array, Electronics, 1961, 3, 3, pp. 54-57

(国外电讯技术动态, 1963年第1期第77—81页)。

电扫用径向波导天线与多放大器系统

Radial-waveguide antenna and multiple amplifier system for electronic scanning, RCA Review, 1961, No. 3, pp. 543-554

电扫雷达天线

Electronically scanning radar antenna, Bell Laboratories Record, 1962, No. 4, pp. 118-123

扇形电扫阵列

Electronic sector-scanning array, Electronic Technology, 1962, No. 1, pp. 13-18

采用非各向同性单元的相控阵的方向图增益

Pattern gain of phased arrays using non-isotropic elements Proc. of NEC, 1962, pp. 94-96

电扫天线系统

Electronically-scanned antenna systems, IRE NEREM Rec., 1962, Vol. 4, pp. 10-11, 194

有源自适应天线系统

Active adaptive antenna array system, IEEE, Vol. AP-11, 1963, No. 4, pp. 405-414

空间用相控阵

Phase array for space applications, IEEE, Vol. AS-1, 1963, No. 2, pp. 314-318

多波束二维波导开槽阵列

Multiple-beam two-dimensional waveguide slot array, IEEE Intern. Conv. Rec. 1963, pt. 1, pp. 59-65

具有非均匀步进相移的线阵

Linear arrays with non-uniform progressive phase shift. IEEE Intern. Conv. Rec. pt. 1, 1963, pp. 70-76

自相控阵天线

Self-phasing array antennas, IEEE, Vol. AP-12, 1964, No. 2, pp. 142-149

自聚焦阵列研究模型

Self-focusing array research model, IEEE, Vol. AP-12, 1964, No. 2, pp. 150-154

天线放大阵

Antennafier arrays, IEEE, Vol. AP-12, 1964, No. 2, pp. 227-233

均匀间距偶极子阵的标称方向性

Nominal directivity of uniformly spaced arrays of dipoles, Microwave Journal, 1964, No. 9, pp. 51-55

阵列和电扫

Arrays and electronic scanning, US Bur. Standards-J. Research-Radio Science, 1964, Vol. 68 D, No. 4, pp. 441-446

自适应天线阵

Adaptive antenna arrays, IEEE spectrum, 1964, No. 8, pp. 78-88

阵列天线——老技术新应用

Array antennas — new applications for old technique, IEEE Spectrum, 1964, No. 11, pp. 115-130; AD 612528

天线阵

Antenna arrays, Illinois Univ.—Applications Forum on Antenna Research—Proc., 1964, pp. 478-533

通信卫星用电扫天线

Electronically steerable antennas for communication satellites, Proc. 8th Intern. Conv. on Mil Electronics, 1964, pp. 369-375

半球面扫描相控阵天线阵面数目的选择

Choosing number of faces of phased-array antenna for hemisphere scan coverage, IEEE, Vol. AP-13, 1965, No. 6, pp. 878-882

受激延迟线接收阵

Activated delay-line receiving arrays, IEEE, Vol. MIL-9, 1965, No. 3-4, pp. 287-292

参量上变频器接收阵

Parametric upconverter receiving array, Microwave Journal, 1965, No. 12, pp. 35-38

雷达用多重处理天线系统

Multiplicative processing antenna systems for radar applications, Radio & Electronic Engr., 1965, No. 8, pp. 53-67

波束电扫柱面阵

Cylindrical arrays with electronic beam scanning, PIEEE, 1965, No. 3, pp. 497-505

自聚焦接收阵

Self-focusing receiving array, PIEEE, 1965, No. 9, pp. 1683-1688

多波束、六角形、三角形栅格平面阵

Multibeam, hexagonal, triangular-grid, planar arrays, IEEE 1965 Intern. Antenna & Propagation Symp., pp. 90-97

采用子阵技术的相控阵

A phased array using sub-array techniques, IEEE 1965 Intern. Antenna & Propagation Symp., pp. 98-101

多波束扫描圆阵

Multiple-beam scanning circular array, Intern. Telemetering Conf., Proc., 1965, Vol. 1, pp. 504-520

跟踪天线阵

Tracking antenna array, 6th Intern. Symp. on Space Technology and Science. Proc., 1965, pp. 585-590

宽带信号线阵的最佳化

Optimal of linear arrays for broadband signals, IEEE, Vol. AP-14, 1966, No. 4, pp. 422-429

选择电扫天线的某些因素

Some factors in choosing electronically steerable antennas, IEE-Conf. Publ. 21, 1966, pp. 247-251

机载相控阵天线

Airborne phased arrays, Technical Information, 1966.9.25., pp. 38-44

(国外电子技术, 1970年第2—3期第44—49、86页)。

部分幅度加权天线阵

Antenna arrays with partially tapered amplitudes, IEEE, Vol. AP-15, 1967, No. 5, pp. 611-617

雷达用相控阵天线的选择

Selection of a phased array antenna for radar applications, IEEE, Vol. AES-3, 1967.11, pp. 226-235

(国外空间电子技术动态, 1971年第1期第23—41页)。

电扫天线阵的决定因素

Determinants of electronically steerable antenna arrays, RCA Review, 1967, No. 1, pp. 3-37

微波相控阵天线

Microwave phased-array antennas, Bell Laboratories Record, 1967, No. 4, pp. 116-121

最小冗余线阵

Minimum-redundancy linear arrays, IEEE, Vol. AP-16, 1968, No. 2, pp. 172-175

采用铁氧体口径的毫米波电扫阵列

Electronically scanned array at millimeter wavelengths employing ferrite apertures, IEEE, Vol. AP-16, 1968, No. 2, pp. 180-187

双波段阵列

Dual band arrays, IEEE, Vol. AP-16, 1968, No. 5, pp. 603-604

等间距球面阵

Equally spaced spherical arrays, Radio Science, 1968, No. 5, pp. 401-404

(雷达技术译丛, 1972年第6期第68—75页)。

曲线阵

Curvilinear arrays, Radio Science, 1968, No. 5, pp. 405-409

多波束平面阵

Multibeam planar arrays, PIEEE, 1968, No. 11, pp. 1818-1821

圆极化单元球面阵的试验研究

Experimental study of spherical array of circularly polarized elements, PIEEE, 1968, No. 11, pp. 2048-2051

电扫描技术

Electronic scanning, Electro-Technology, 1968, No. 5, pp. 29-41

交叉偶极子组成的飞行器跟踪天线阵

十字形ダイポールを用いた飛しよの体追尾アンテナアレイ電子通信学会論文誌B, 1968年, №6, PP 247—253

球面阵试验研究

Experimental investigation on spherical array, IEEE, Vol. AP-17, 1969, No. 3, pp. 348-349

宇航相控阵结构

Spacecraft phased array configurations, IEEE, Vol. AP-17, 1969, No. 4, pp. 522-524

采用时空编码压缩天线阵波瓣

Pattern compression by space-time coding of an antenna array. In French, L'onde Electrique, 1969, 11, No. 512, pp. 1079-1088

(雷达技术简况, 1972年第1期第1—12页)。

新的可控圆阵

A new steerable circular array, IEEE European Microwave Conf., Proc., 1969, uu. 124-127

电子波束旋转实验阵列

An experimental array with electronic beam rotation, IEEE European Microwave Conf., Proc., 1969, pp. 129-132

铁氧体控制相位扫描微波天线

A ferrite controlled phase scanning microwave antenna, IEEE European Microwave Conf., Proc., 1969, pp. 156-159

固态微波天线系统

Solid-state microwave antenna systems, RCA Microwave Technology, 1969, pp. 8-9

为空间应用设计的APPA相控阵系统

APPA — A phased array system designed for space applications, IEEE, Vol. AES-6, 1970.7, pp. 575-584

相控阵系统用双频段组件设计成多用性

Versatility is designed into dual-band module for phased array systems, Electronics, 1970.7.20, pp. 78-81

(微电子技术动态, 1971年第1期第22—24页)。

美帝相控阵技术发展概况及动向

Phased arrays scan rapidly towards growth in the 70's, Microwaves, 1970, No. 6, pp. 38-54

(国外电子工程, 1971年第1期第17—28页; 电子译报, 1972年第3期)。

大型天线

Large antennas, Progress in Radio Science 1966-1969, 1969 Proc., Vol. 3, pp. 167-175

阶跃扫描圆形天线阵

Step-scanned circular-array antenna, IEEE, Vol. AP-18, 1970, No. 5, pp. 590-595

(雷达技术译丛, 1971年第3期第77—87页)。

地面相控阵天线概况

Survey of ground based phased array antennas, Proc. of the Phased Array Antennas Symp., 1970, pp. 9-14

(相控阵天线上集, “国外电子技术”1974年增刊(二)第2—5页)。

对称圆阵概述

A survey of circular symmetric arrays, Proc. of the Phased Array Antennas Symp., 1970, pp. 292-300

大型相控阵天线的鉴定

Evaluation of large phased-array antennas, Proc. of the Phased Array Antennas Symp., 1970, pp. 324-331

实验性机载X-波段阵列

An experimental X-band array for airborne applications, IEEE NAECON'70, pp. 219-225

机载相控阵天线

Phased array antenna for airborne application, Microwave Journal, 1971, No. 1, pp. 31-38
(雷达技术译丛, 1971年第3期第65—76页)。

相控阵天线的红外和热鉴定

Infrared and thermal evaluation of a phased array antenna, Material Evaluation, 1971, No. 9, pp. 193-198

相控阵系统

Phased array systems, Electro-Technology (India), 1971, No. 5, pp. 153-162

具有稀布移相器和发生器的微电子学相控阵

MERA type phased array with thinning phase shifters and generators, IEEE G-AP Intern. Symp. 1971, pp. 52-55

相控阵天线

Phased array antennas, 1971 European Microwave Conf., Proc. Vol. 1, pp. B1/S-1 — B1/S-4
(国外电子技术, 1973年第3期第50—53页)。

实验相控阵天线的辐射性能

Radiation performance of an experimental phased array, 1971 European Microwave Conf., Proc., Vol. 1, pp. B2/2:1 — B2/2:4

甚宽带相控阵天线

Very wide-band phased-array antenna, IEEE, Vol. AP-20, 1972, No. 6, pp. 699-704

多功能微波口径的设想及可能性

Multifunction microwave apertures — concepts and potential, NAECON'72, pp. 197-204

效率一衡量相控阵天线规模的指标

Efficiency as a measure of size of a phased-array antenna, IEEE Vol. AP-21, 1973, No. 6, pp. 879-884

空中交通管制询问用圆柱相控阵天线

A cylindrical phased-array antenna for ATC interrogation, Microwave Journal, 1973, No. 10, pp. 46-49

自由空间相控天线阵

A free-space phase changing antenna array, Electron. & Fis. Apl. (Spain), 1973, No. 3, pp. 440-446, In French.

有限扫描用实验阵列研究计划

An experimental array program for limited scanning studies, 1973 G-AP Intern. Symp. pp. 329-331

对空监视雷达旋转相控阵天线

Rotating phased array antennas for air surveillance radars, European Microwave Conference, 1973 Vol. 2, P.C.1.1(1) — C.1.1(1)12.

9千兆赫相扫线阵天线

A 9 GHz phase-scanned linear array antenna, Radar-Present and Future, Proc. of the Intern. Conf. 1973, pp. 81-87

电扫技术

Electronic scanning, J. Inst. Eng. (India), Electron Telecommun. Eng. Div. Vol. 53, pt. ET-6, 1973, pp. 240-244

自补偿天线阵

Самодополнительные антенные решетки, Радиотехника, 1973, № 4, pp. 44-49

小型共形阵列设计

Design of a small conformal array, IEEE Vol. AP-22, 1974, No. 1, pp. 64-70

四重脊形加载园波导相控阵

Quadruple ridged-loaded circular waveguide phased arrays, IEEE Vol. AP-22, May 1974, pp. 481-483

有限扫描用交迭子阵

An overlapped subarray for limited scan application, IEEE Vol. AP-22, May 1974, pp. 487-489

杂波绘制雷达系统用有限扫描相控阵天线

A limited-scan phased-array antenna for use with a clutter-mapping radar system, IEEE Vol. AP-22, July 1974, pp. 599-603

电扫相控阵的标准化

Standardization of electronically-scanned phased arrays, Microwave Journal 1974, No. 1, pp. 36, 66, 69

自适应阵列

Adaptive arrays, Microwave Journal, 1974, No. 5, pp. 43-46, 74

AN/SPY-1 相控阵天线

AN/SPY-1 phased array antenna, Microwave Journal, 1974, No. 5, pp. 51-55

有限扫描天线

Limited scan antennas, 1974 Intern. IEEE/AP-S Symp. Digest, pp. 117-120

半球复盖相控阵天线

Phased array antenna for hemispheric coverage, European Conf. on Electrotechnics, 1974, Digest, C. 9-5/2

半球扫描阵列

Hemispherically scanned arrays, Microwave Symp. Digest, 1974, pp. 12-16; 1974 Intern. IEEE/AP-S Symp. Digest, pp. 363-367

具有集成 PIN 二极管的 X 波段反射阵

An X band reflect-array with integrated PIN diodes, Microwave Symp., Digest, 1974, p. 23; 1974 Intern. IEEE/AP-S Symp. Digest, pp. 376-378

非平面阵列天线

Non-planar array antennas, Proceedings of the 5th Colloquium on Microwave Communication Vol. 3, 1974, p. ET-32/271-281

相控阵天线进展情况

Phased-array antenna advanced detailed, AW & ST. 1975, Vol. 102, No. 18, p. 57, 59-60

相控阵

Phased arrays, PB 144775, 1959, 63 p

通信卫星多波束高增益相控阵天线系统

Multibeam, high gain, phased array antenna system for communication satellites, N66-29397, 1965, 53p

自动扫描天线系统

Automatically scanned antenna systems, N66-35169, 1966, 131p

宽带阵列天线系统

Wideband array antenna system, N67-33381, 1967, 1p

相控阵天线系统

Phased array antenna system, N67-33391, 1967, 2p

气象卫星用相控阵

Phased arrays for meteorological satellite, N67-36755, 1967, 100p

电扫天线系统(30—100千兆赫)研究计划

Study program on (30-100 GHz) electronically steerable antenna system, N68-13044, 1967, 37p

气象卫星用相控阵

Phased arrays for meteorological satellite, N68-31995, 1968, 56p

曲线天线阵

Curvilinear antenna — arrays, N68-37287, 1967, 124p

电扫相控阵天线系统的工程模型

Engineering model of an electronically scanned phased array antenna system, N69-30068, 1969, 131p

宇航微波传感器相控阵

Phased arrays for spaceborne microwave sensors, N69-33630, 1968, 10p

圆弧阵列分析和最佳化

Circular arc array analysis and optimization, N70-17922, 1968, 132p

宇宙飞船用相阵控天线

Phased array antennas for application on space-craft, N70-39307, 1970, 39p

雷达无惯性扫描天线阵

Radar inertialess scan antenna array, N71-10232, 1970, 3p

相位多重电扫系统

Phase multiplying electronic scanning system, N71-26142, 1971, 8p

微波扫描波束进场和着陆系统相控阵天线

Microwave scanning beam approach and landing system phased array antenna, N72-21627, 1971, 314p

机载电子可控相控阵

Airborne electronically steerable phased array, N73-18219, 1972, 89p

机场精密进场雷达用阵列和反射器

Array and reflector techniques for airport precision approach radars, N74-31698, Jun. 1974, 14p

空间电扫二维天线阵

An electric volumetric scanning two-dimensional antenna array, PB162447, AD157982, 1957, 42p

传播测量用快速扫描相控阵

A rapid-scanning phased array for propagation measurements, AD202859, PB157824, 1958, 26p

电扫天线阵相位稳定技术

Phase stabilization techniques for electronically scanned arrays, AD228707, PB150913, 1959, 86p

天线的扫描和稳定技术

ESSA (Electrical scanning and stabilizing of antennas), AD237581, PB160808, 1960, 342p

电扫圆阵

Circular arrays for electronic scanning, AD276551, 1962, 32p

开槽脊形波导平面阵

Slotted-ridge waveguide planar arrays, AD408955, 1963, 29p

多波束扫描圆阵的研究

Investigation of a multiple beam scanning circular array, AD411868 1962, 90p

电控地面天线系统研究

Research study for electronically-steerable ground-based antenna system, AD434398, 1964, 102p

空间监视用宽带线阵

A broadband linear array for space surveillance, AD603769, 1964, 19p

- 相干光阵列技术
Coherent optical array techniques, AD608220, N65-11886, 1974, 71p
- 电子可控阵列
Electronically steerable array, AD617140, 1965, 36p
- 电子可控阵列
Electronically steerable array, AD624791, 1965, 70p
- 大型低成本可控平面阵
A large, low-cost steerable planar array, AD624880, N66-16737, 1965, 104p
- 电子可控阵列
Electronically steerable array, AD629543, 1966, 44p
- 电扫天线研究
Research on electronically scanning antennas, AD631488, N66-27643, 1966, 88p
- 电子可控阵列
Electronically steerable array, AD633495, N66-33356, 1966, 57p
- 多板天线
The multiplate antenna, AD642430, N67-17193, 1966, 62p
- 某些最佳天线阵
Some optimum antenna arrays, AD648633, 1966, 40p
- 圆阵雷达天线
Circular-array radar antenna, AD659984, 1967, 74p
- 最小冗余线阵
Minimum-redundancy linear arrays, AD660920, 1967, 14p
- 无限大相控偶极子阵
Infinite phased dipole array, AD664064, N68-18334, 1967, 44p
- 新的圆阵天线
A novel circular array antenna, AD683858, 1968, 26p
- 电扫天线
Antennas with electrical scanning AD693065, N70-11577, 1969, 22p
- 具有非刚性中介连线的阵列
On arrays with nonrigid interstices, AD714809, N71-18243, 1970, 43p
- 可选择极化的X波段线阵
An X-band linear array with selectable polarization, AD729878, 1971, 13p
- 带近场卡塞格伦系统的有限电扫技术
Limited electronic scanning with a near-field cassegrainian system, AD735661, 1971, 29p
- 带偏馈近场格里果尔系统的有限电扫技术
Limited electronic scanning with an offset-feed near-field Gregorian system, AD736029, N72-21193, 1971, 32p
- 电扫偶极子阵中的零值控制和最大增益
Null steering and maximum gain in electronically scanned dipole array, AD740579, N72-30215, 1972, 39p
- 卫星跟踪用半球面扫描相控阵天线
A phased array antenna with hemispheric scan for satellite tracking, AD 742433, N72-30175, 1972, 94p
- 阵列天线会议录第一卷第一部分
Proceedings of the array antenna conf., Vol. 1, pt. 1, AD744629, N73-11209, 1972, 330p
- 阵列天线会议录第一卷第二部分
Proceedings of the array antenna conf., Vol. 1, pt. 2, AD744630, N73-11210, 1972, 215p
- 近场聚焦相控阵
Phased array focused in near field, AD746997, N73-12226, 1972, 36p
- 有限扫描用阵列技术
Array techniques for limited scan application, AD751274, N73-16203, 1972, 74p
- 轻型电扫天线的研究
A light weight electronically scanned antenna investigation, AD763214, N73-30193, 1973, 56p
- 舰载L波段圆阵
An L-band circular array for ship applications, AD766783, 1973, 39p
- 超宽带相控阵
Ultra-wideband phased arrays, AD769965, N74-16968, 1973, 72p
- C波段柱面阵
C-band cylindrical array, AD774883, N74-21867 Jan. 74, 100p
- 有限扫描用多模阵列技术的实验研究
Experimental studies of a multiple mode array technique for limited scan applications, AD775081, N74-21868, Nov. 73, 31p
- 有限扫描用交迭子阵
An overlapped sub-array for limited scan application, AD775082, N74-21869, Sep. 73, 19p