

ISSN 1671-0576
CN 31-1373 / TN

制导与引信

GUIDANCE & FUZE | 2023 年 3 月

2023·1

第 44 卷 第 1 期
(总第 173 期)

上海航天技术研究院第八〇二研究所

目 次

总体技术

基于神经网络分数阶滑模控制的导弹制导系统设计..... 王 飞,周爱美,王宇霄 (1)

制导技术

弹载雷达单脉冲前视成像回波建模 孙文源,王树文,吴振凯,卫 恒 (6)

宽带高增益全并馈双极化波导缝隙滤波天线阵..... 张 涛,李迎欣,朱丽丽,纪 松,鲁洵洵 (12)

基于极化敏感阵列抗有源干扰的测向算法..... 沈千秋,赵勇武,夏新凡,吴迎春,奚 银 (17)

探测与通信技术

无畸变共形阵列抗干扰算法的降秩处理方法 李 晗,何 迪,陈 新,曲家庆 (24)

基于间歇模式的 SAR 成像仿真设计 刘亚奇,潘鹤斌,苏皎阳,张金强,付朝伟 (32)

基于 OFDM 雷达通信一体化信号的 PAPR 抑制 赵珊珊,杨 彪,刘子威,张 弦,施君南 (39)

超分辨光学图像深度展开网络..... 史梦阳,张 弦,王 丽,施君南,高叶盛 (45)

列车双雷达测速算法优化..... 柯文雄,姜 敏,袁 伟,涂 建,李由之 (50)

目标特性技术

基于辐射能量分布函数的黑体辐射天地一致性理论推导 刘 健,林嘉轩,朱凌轩,杜 君 (55)

CONTENTS

Overall Technology

Missile Guidance System Design Based on Neural Network Fractional Order Sliding Mode Control
..... WANG Fei, ZHOU Aimei, WANG Yuxiao (1)

Guidance

Echo Modeling of Monopulse Forward-looking Imaging of Missile-borne Radar
..... SUN Wenyuan, WANG Shuwen, WU Zhenkai, WEI Heng (6)

Broadband High-gain Full-corporate Feed Dual-polarization Slot Waveguide Filter Antenna Array
..... ZHANG Tao, LI Yingxin, ZHU Lili, JI Song, LU Xunxun (12)

Direction-finding Algorithm Against Active Interference Based on Polarization-sensitive Array
..... SHEN Qianqiu, ZHAO Yongwu, XIA Xinfan, WU Yingchun, XI Yin (17)

Detection and Communication

Reduced Rank Processing of Distortionless Interference Suppression Algorithm for Conformal Array
..... LI Han, HE Di, CHEN Xin, QU Jiaqing (24)

Simulation Design of SAR Imaging Based on Burst Mode
..... LIU Yaqi, PAN Hebin, SU Jiaoyang, ZHANG Jinqiang, FU Chaowei (32)

PAPR Suppression of Integrated Radar and Communication Signal Based on OFDM
..... ZHAO Shanshan, YANG Biao, LIU Ziwei, ZHANG Xian, SHI Junnan (39)

Deep Unfolding Network for Super-resolution Optical Image
..... SHI Mengyang, ZHANG Xian, WANG Li, SHI Junnan, GAO Yesheng (45)

Optimization of Train Dual-radar Speed-measurement Algorithm
..... KE Wenxiong, JIANG Min, YUAN Wei, TU Jian, LI Youzhi (50)

Target Characteristics

Derivation of Blackbody Radiation Congruity Theory between High Altitude and Ground Based on
Function of Radiation Energy Distribution
..... LIU Jian, LIN Jiaxuan, ZHU Lingxuan, DU Jun (55)