

太赫兹科学与电子信息学报

TAIHEZI KEXUE YU DIANZI XINXI XUEBAO

第 20 卷 第 2 期 2022 年 2 月

目 次

专栏：雷达电子战仿真、试验与评估(一)

- 基于 GNSS 的无源雷达定位能力分析.....郑雨晴, 艾小锋, 徐志明, 等 (97)
- 雷达目标双基地散射特性研究进展.....艾小锋, 徐志明, 邱梦奇, 等 (106)
- 组网雷达融合处理模板设计与拓展.....吴 静, 艾小锋, 徐志明, 等 (119)
- 雷达信号处理模块组件化设计与仿真.....彭玲玉, 吴其华, 刘晓斌, 等 (127)
- 面向认知对抗的学习训练与仿真评估系统设计.....安 红, 张 朔, 赵耀东, 等 (133)
- 自卫干扰位置可控式 ISAR 假目标合成方法.....潘小义, 艾 夏, 刘佳琪, 等 (140)
- 基于组件的雷达信号及数据处理仿真方法.....刘晓斌, 吴其华, 赵 锋, 等 (147)
- 关于 Huynen 目标参数与目标最佳极化关系的讨论.....徐志明, 艾小锋, 李永祯, 等 (154)

太赫兹科学技术

- 6G 新频谱：太赫兹无线通信之“思与行”.....邓贤进, 姚 军, 林长星, 等 (159)
- 0.23 THz 分子钟腔体设计与实验.....蒋 艺, 雷文强, 胡 鹏, 等 (166)

电磁场与微波

- 基于散射中心模型的目标时域回波快速仿真.....付 松, 李 新 (170)

信号与信息处理、计算机与控制

- 基于耦合电感高增益 Buck-Boost 变换器小信号建模.....高鹏飞, 李克艰, 刘红霞, 等 (176)
- 基于博弈论的无线传感网络节点攻防优化.....周全兴, 李秋贤, 王振龙, 等 (181)
- 5G 异构超密度网络中吞吐量与覆盖的联合优化.....吴 鹏 (188)

简讯

- 第一届太赫兹科学与电子信息前沿学术研讨会第二论通知.....(n1)
- 《太赫兹科学与电子信息学报》2022 年第 5 期专栏征稿 主题：轨道交通先进移动通信技术与应用.....(n2)
- 会讯几则.....(n3)

CONTENTS

SIMULATION, TEST AND EVALUATION OF RADAR ELECTRONIC WARFARE

Localization ability analysis of GNSS-based passive radarZHENG Yuqing, AI Xiaofeng, XU Zhiming, et al. (97)

Overview of bistatic scattering characteristics of radar targetsAI Xiaofeng, XU Zhiming, QIU Mengqi, et al. (106)

Design and development of fusion processing template for netted radar WU Jing, AI Xiaofeng, XU Zhiming, et al. (119)

Component-based design and simulation for radar signal processing modulePENG Lingyu, WU Qihua, LIU Xiaobin, et al. (127)

Design of learning training and simulation evaluation system for cognitive EW AN Hong, ZHANG Suo, ZHAO Yaodong, et al. (133)

Synthesis of ISAR decoys with controllable position in Self-Screening JammingPAN Xiaoyi, AI Xia, LIU Jiaqi, et al. (140)

Component-based radar signal and data processing simulation methodLIU Xiaobin, WU Qihua, ZHAO Feng, et al. (147)

On discussion about the relationship between Huynen target parameters and optimum polarizationsXU Zhiming, AI Xiaofeng, LI Yongzhen, et al. (154)

TERAHERTZ SCIENCE AND TECHNOLOGY

New spectrum for 6G: thinking and action of terahertz wireless communicationDENG Xianjina, YAO Jun, LIN Changxing, et al. (159)

Design and experimental results of 0.23 THz molecular clock cavityJIANG Yi, LEI Wenqiang, HU Peng, et al. (166)

ELECTROMAGNETIC FIELDS & MICROWAVE

Fast simulation of target time-domain echo based on scattering center modelFU Song, LI Xin (170)

SIGNAL AND INFORMATION PROCESSING, COMPUTER AND CONTROL

Small signal modeling for high step-up Buck-Boost converter based on coupled inductorGAO Pengfei, LI Kejian, LIU Hongxia, et al. (176)

Attack and defense optimization of wireless sensor network nodes based on game theoryZHOU Quanxing, LI Qiuxian, WANG Zhenlong, et al. (181)

Power Control-based joint optimal for throughput and coverage in Heterogeneous Ultra-Dense NetworksWU Peng (188)