

MSSR Antenna Performance Measurement in Situ by Near Field Microwave Holography

Publisher: IEEE

Cite This



PDF

Károly Árpád Kis ; Gyula Korsoveczki ; István Balajti ; Péter Biró ; Kornél Sarvajcz All Authors

2 Cites in Papers 39 Full Text Views



Abstract

Document Sections

- I. Introduction
- II. Evaluation of the Theoretical Performance Characteristics of the Tar-1 Radar Mssr Antenna
- III. Evaluation of the Antenna Performance Characteristics Measured on the First Day

Abstract:

This paper provides an overview of the performance measurement study conducted on the Budapest International TAR-1 Monopulse Secondary Surveillance Radar (MSSR) antenna. Secondary Surveillance Radar systems performance plays a crucial role in modern air traffic control, ensuring safe and efficient airspace management [1]. The focus of this research is to evaluate and analyze the antenna performance long time operational degradation, reliability, and test of our fault isolation methodology of the TAR-1 MSSR antenna deployed at the Budapest International Airport. The antenna rows fault isolation data collection is based on In Situ circular Near field set up connected to Microwave Holography calculations

Published in: 2024 Advances in Science and Engineering Technology International Conferences (ASET)

Date of Conference: 03-05 June 2024

DOI: 10.1109/ASET60340.2024.10708645

Date Added to IEEE Xplore: 14 October 2024

Publisher: IEEE



- IV Evaluation of the Antenna Performance Characteristics Measured With Direct Connection (measurements on Second day)
- V. Summary of Measurement Results

► ISBN Information:

Conference Location: Abu Dhabi, United Arab Emirates

▼ ISSN Information:

Sign in to Continue Reading

Authors	▼
Figures	▼
References	▼
Citations	▼
Keywords	▼
Metrics	▼

Need
Full-Text

access to IEEE *Xplore*
for your organization?

CONTACT IEEE TO SUBSCRIBE >

IEEE Personal Account

CHANGE
USERNAME/PASSWORD

Purchase Details

PAYMENT OPTIONS
VIEW PURCHASED
DOCUMENTS

Profile Information

COMMUNICATIONS
PREFERENCES
PROFESSION AND
EDUCATION
TECHNICAL INTERESTS

Need Help?

US & CANADA: +1 800
678 4333
WORLDWIDE: +1 732
981 0060
CONTACT & SUPPORT

Follow

[f](#) [@](#) [in](#) [▶](#)

[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [IEEE Ethics Reporting](#) [↗](#) | [Sitemap](#) | [IEEE Privacy Policy](#)

A public charity, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2025 IEEE - All rights reserved, including rights for text and data mining and training of artificial intelligence and similar technologies.