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A geostationary orbit microwave multi-channel radiometer

Weilai Zhou, Rongchuan Lv*, Hao Li, Yinan Li, Haofeng Dou,
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The geostationary orbit microwave multi-channel radiometer has the advantages of high real-time performance and large coverage, which plays an important role in typhoon, strong precipitation detection, and medium-to-short-term meteorological/oceanic forecasting. However, due to the difficulty in engineering development of the payload, its application on-orbit has not yet been achieved at present. To satisfy the requirements of fine and quantitative application of satellite observation data, a geostationary orbit microwave multi-channel radiometer with a 10-m-caliber is developed, in which the spatial resolution at horizontal polarization is better than 24 km at 54 GHz. In geostationary orbit microwave multi-channel radiometer, a quasi-optical feed network covering nearly 28 frequency octave bands and ranging from 23.8 to 664 GHz is proposed to solve the technical problem of multi-frequency sharing in the system. Meanwhile, a high-precision reflector preparation method and a high-precision unfolding scheme are proposed, which are considered as a solution for the large-diameter reflector with a high maintaining surface accuracy. A high-precision antenna prototype with 0.54-m is developed, and the tests are performed to verify the key technologies, such as the preparation of high-precision grating reflectors at the micron level, high surface accuracy detection, and sub-millimeter wave antenna electrical performance testing. The results indicate that measured main beam efficiency of the 664-GHz antenna is better than 95.5%. In addition, the system sensitivity is greater than 1.5 K, and the calibration accuracy is better than 1.8 K, according to the results of an analysis of the multi-channel radiometer's essential parameters and calibration errors.

KEYWORDS

geostationary orbit, multi-channel, radiometer, main beam efficiency, sensitivity

1 Introduction

Objects with temperatures higher than absolute zero (0K) emit non-coherent electromagnetic radiation, which is also known as thermal radiation [1, 2]. Microwave radiometers are mainly used to measure the thermal radiation of objects [3]. They do not emit signals themselves, nor do they rely on signals from other sources, and they have the characteristics of all-weather, all-time operation. They can provide information that cannot be obtained by infrared, visible light, or other means, and have a wide range of applications in fields such as atmospheric and oceanic remote sensing, disaster monitoring, and deep space exploration [4]. Currently, all microwave radiometers in orbit are limited to being mounted on low Earth orbit satellites that operate in a Sun-synchronous orbit. The repetition period of observations of the same area on Earth is long, and the temporal resolution of observations is

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The Advancing World of Applied Electromagnetics Akhlesh Lakhtakia, Cynthia M. Furse, Tom G. Mackay, 2024-04-08 This book commemorates five decades of research by Professor Magdy F Iskander Life Fellow IEEE on materials and devices for the radiation propagation scattering and applications of electromagnetic waves chiefly in the MHz THz frequency range as well on electromagnetics education This synopsis of electromagnetics stemming from the life and times of just one person is meant to inspire junior researchers and reinvigorate mid level researchers in the electromagnetics community The authors of this book are internationally known researchers including 12 IEEE fellows who highlight interesting research and new directions in theoretical experimental and applied electromagnetics Provides a single source reference to many of the most significant developments of the past 5 decades in theoretical experimental and applied electromagnetics Offers readers in each sub discipline discussed current research trends the state of the art the chief tools needed in that area and the vision of a research leader for that area Includes content of particular interest in Antennas and Propagation as well as Microwave Theory and Techniques

The World of Applied Electromagnetics Akhlesh Lakhtakia, Cynthia M. Furse, 2017-08-08 This book commemorates four decades of research by Professor Magdy F Iskander Life Fellow IEEE on materials and devices for the radiation propagation scattering and applications of electromagnetic waves chiefly in the MHz THz frequency range as well on electromagnetics education This synopsis of applied electromagnetics stemming from the life and times of just one person is meant to inspire junior researchers and reinvigorate mid level researchers in the electromagnetics community The authors of this book are internationally known researchers including 14 IEEE fellows who highlight interesting research and new directions in theoretical experimental and applied electromagnetics

Teaching Electromagnetics Krishnasamy T. Selvan, Karl F. Warnick, 2021-06-17 Teaching Electromagnetics Innovative Approaches and Pedagogical Strategies is a guide for educators addressing course content and pedagogical methods primarily at the undergraduate level in electromagnetic theory and its applications Topics include teaching methods lab experiences and hands on learning and course structures that help teachers respond effectively to trends in learning styles and evolving engineering curricula The book grapples with issues related to the recent worldwide shift to remote teaching Each chapter begins with a high level consideration of the topic reviews previous work and publications and gives the reader a broad picture of the topic before delving into details Chapters include specific guidance for those who want to implement the methods and assessment results and evaluation of the effectiveness of the methods Respecting the limited time available to the average teacher to try new methods the chapters focus on why an instructor should adopt the methods proposed in it Topics include virtual laboratories computer assisted learning and MATLAB tools The authors also review flipped classrooms and online teaching methods that support remote teaching and learning The end result should be an impact on the reader represented by improvements to his or her practical teaching methods and curricular approach to electromagnetics education The book is intended for electrical

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