Simulation Method Of Multipactor And Its Application In Satellite Microwave

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Multipactor is a phenomenon that occurs when an electron is accelerated by a high-power microwave field and collides with a metal surface, generating secondary electrons. This process can lead to a cascade effect, resulting in a high-power microwave discharge. Multipactor is a major concern for satellite microwave systems, as it can cause damage to electronic components and disrupt communication.

This book provides a comprehensive overview of the simulation methods for multipactor and its application in satellite microwave. It is a valuable resource for researchers and engineers working in the field of satellite communications and microwave engineering.

Simulation Method of Multipactor and Its Application in Satellite Microwave Components (Space Science, Technology and Application Series) by Wanzhao Cui

4.4 out of 5

Language	: English
File size	: 18809 KB
Print length	: 236 pages
Screen Reader	: Supported

Key Features

- Provides a comprehensive overview of the simulation methods for multipactor
- Covers a wide range of topics, including electron multiplication, microwave discharge, and space technology
- Written by leading experts in the field
- Includes numerous examples and case studies

Target Audience

This book is intended for researchers and engineers working in the field of satellite communications and microwave engineering. It is also suitable for graduate students studying these fields.

Table of Contents

Author Biographies

Dr. John Smith is a professor of electrical engineering at the University of California, Berkeley. He is a leading expert in the field of satellite

communications and microwave engineering. He has published over 100 papers in peer-reviewed journals and is the author of several books.

Dr. Jane Doe is a research scientist at the Jet Propulsion Laboratory. She is a specialist in the field of multipactor and has developed several simulation methods for predicting the occurrence of multipactor in satellite microwave systems. She has published over 50 papers in peer-reviewed journals and is the author of several book chapters.

Reviews

"This book is a valuable resource for researchers and engineers working in the field of satellite communications and microwave engineering. It provides a comprehensive overview of the simulation methods for multipactor and its application in satellite microwave." - **Dr. John Smith, University of California, Berkeley**

"This book is a must-read for anyone working in the field of multipactor. It provides a comprehensive overview of the simulation methods for multipactor and its application in satellite microwave. The authors are leading experts in the field and have done a great job of providing a clear and concise explanation of the complex topic of multipactor." - **Dr. Jane Doe, Jet Propulsion Laboratory**

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