

Received 31 August 2020; revised 8 October 2020; accepted 13 October 2020.  
Date of current version 7 January 2021.

Digital Object Identifier 10.1109/JMT.2020.3032756

# Microwave Superconductivity

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(Invited Paper)

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This work was supported by the U.S. Department of Energy under Grant DE-SC0008789 (support of SMA) and the U.S. National Science Foundation under Grant DMR-20064366.

**ABSTRACT** We give a broad overview of the history of microwave superconductivity and explore the technological developments that have followed from the unique electrodynamic properties of superconductors. Their low loss properties enable resonators with high quality factors that can nevertheless handle extremely high current densities. This in turn enables superconducting particle accelerators, high-performance filters and analog electronics, including metamaterials, with extreme performance. The macroscopic quantum properties have enabled new generations of ultra-high-speed digital computing and extraordinarily sensitive detectors. The microscopic quantum properties have enabled large-scale quantum computers, which at their heart are essentially microwave-fueled quantum engines. We celebrate the rich history of microwave superconductivity and look to the promising future of this exciting branch of microwave technology.

**INDEX TERMS** High-temperature superconductors, Josephson junctions, Quantum computing, SQUIDs, Superconductivity, Superconducting filters, Superconducting logic circuits, Superconducting materials, Superconducting microwave devices, Superconductive tunneling.

## I. INTRODUCTION

The unique microwave properties of superconductors enable a remarkable range of novel applications and technologies. The low Ohmic losses of the superconducting state allow for extremely high efficiency and compact charged particle accelerators based on microwave resonant cavities with quality factors exceeding  $10^{11}$ . The unique electrodynamic properties of superconductors enable low-dispersion transmission lines that preserve the integrity of extremely short electrical impulses. This, along with the macroscopic quantum properties of superconductors have enabled a family of radically new digital electronics based on magnetic flux quantization and the Josephson effect. The low-loss and nonlinear properties of superconductors create an ideal setting for demonstration of quantum phenomena such as entanglement and controlled quantum state evolution. Because microwave superconductivity is a key enabler for present and future quantum technologies, anyone trained in microwave engineering has entry level skills for this exciting new technology frontier [1]. My goal in this article is to give an overview of the remarkable microwave technologies uniquely enabled by superconductivity. I will also argue that the barrier to utilizing these ‘exotic’

technologies has been considerably lowered in recent years through the development of inexpensive and highly reliable cryogenic technology infrastructure.

This overview touches lightly on many fascinating topics. The technical detail (and rigor) is kept to a minimum in order to bring out the main trends in the development of superconductors for microwave applications. To delve deeper, the interested reader is advised to consult a number of helpful books, monographs, and articles on microwave superconductivity that have appeared in the recent past. The most comprehensive is probably the collected papers from a NATO Advanced Study Institute [2]. Other accessible but more specialized sources on microwave superconductivity include works on RF superconductivity for particle accelerator applications, [3], [4] Josephson junction dynamics, [5] electrodynamics of high-temperature superconductors, [6] analog superconducting microwave electronics, [7]–[10] high-frequency superconducting materials issues, [11] and early microwave measurements of superconductors [12].

This article begins with a review of the basic features that distinguish superconductors from ordinary metals. It then summarizes the key technical quantities that characterize the

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## **Table of Contents Microwave Superconductivity Microwave Superconductivity**

1. Understanding the eBook Microwave Superconductivity Microwave Superconductivity
  - The Rise of Digital Reading Microwave Superconductivity Microwave Superconductivity
  - Advantages of eBooks Over Traditional Books
2. Identifying Microwave Superconductivity Microwave Superconductivity
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Microwave Superconductivity Microwave Superconductivity
  - User-Friendly Interface
4. Exploring eBook Recommendations from Microwave Superconductivity Microwave Superconductivity
  - Personalized Recommendations
  - Microwave Superconductivity Microwave Superconductivity User Reviews and Ratings

- Microwave Superconductivity Microwave Superconductivity and Bestseller Lists
- 5. Accessing Microwave Superconductivity Microwave Superconductivity Free and Paid eBooks
  - Microwave Superconductivity Microwave Superconductivity Public Domain eBooks
  - Microwave Superconductivity Microwave Superconductivity eBook Subscription Services
  - Microwave Superconductivity Microwave Superconductivity Budget-Friendly Options
- 6. Navigating Microwave Superconductivity Microwave Superconductivity eBook Formats
  - ePub, PDF, MOBI, and More
  - Microwave Superconductivity Microwave Superconductivity Compatibility with Devices
  - Microwave Superconductivity Microwave Superconductivity Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Microwave Superconductivity Microwave Superconductivity
  - Highlighting and Note-Taking Microwave Superconductivity Microwave Superconductivity
  - Interactive Elements Microwave Superconductivity Microwave Superconductivity
- 8. Staying Engaged with Microwave Superconductivity Microwave Superconductivity
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Microwave Superconductivity Microwave Superconductivity
- 9. Balancing eBooks and Physical Books Microwave Superconductivity Microwave Superconductivity
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Microwave Superconductivity Microwave Superconductivity
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Microwave Superconductivity Microwave Superconductivity
  - Setting Reading Goals Microwave Superconductivity Microwave Superconductivity
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microwave Superconductivity Microwave Superconductivity
  - Fact-Checking eBook Content of Microwave Superconductivity Microwave Superconductivity
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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