



Microwave Absorbing Materials

By Yuping Duan, Hongtao Guan

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With the phenomenal development of electromagnetic wave communication devices and stealth technology, electromagnetic wave absorbing materials have been attracting attention as antielectromagnetic interference slabs, stealth materials, self-concealing technology, and microwave darkrooms.

This book starts with the fundamental theory of electromagnetic wave absorption in loss medium space, followed by a discussion of different microwave absorbents, such as manganese dioxide, iron-based composite powder, conductive polyaniline, barium titanate powder, and manganese nitride. Then, structural absorbing materials are explored, including multilayer materials, new discrete absorbers, microwave absorption coatings, cement-based materials, and structural pyramid materials. Many of the graphics demonstrate not only the principles of physics and experimental results but also the methodology of computing.

The book will be useful for graduate students of materials science and engineering, physics, chemistry, and electrical and electronic engineering; researchers in the fields of electromagnetic functional materials and nanoscience; and engineers in the fields of electromagnetic compatibility and stealth design.

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Microwave Absorbing Materials By Yuping Duan, Hongtao Guan Bibliography

- Rank: #4259923 in Books
- Published on: 2016-09-09
- Original language: English
- Dimensions: 9.00" h x 6.25" w x 1.00" l,
- Binding: Hardcover
- 402 pages

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Editorial Review

About the Author

Yuping Duan studied materials science and technology at the Dalian University of Technology, Liaoning, China, and received his PhD in materials science and engineering in 2006. He is a professor in the School of Materials Science and Engineering. For more than 15 years, he has researched and taught about electromagnetic functional materials. He has authored (and coauthored) many research papers in the field of microwave absorbing materials.

Hongtao Guan is an associate professor in the School of Materials Science and Engineering at Yunnan University, China. He received his PhD in materials engineering in 2006 from the Dalian University of Technology. His research focuses on nanostructured materials, particularly manganese oxides, for applications in electromagnetic absorption and electrochemical energy storage.

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