

Abstracts

Guest Editorial (Sep. 1991 [T-MTT])

P.H. Carr and B.R. McAvoy. "Guest Editorial (Sep. 1991 [T-MTT])." 1991 Transactions on Microwave Theory and Techniques 39.9 (Sep. 1991 [T-MTT] (Special Issue on Microwave Applications of Superconductivity)): 1445-1447.

The Nobel-prize-winning discovery in 1987 of cuprate-based superconductors, which led to materials such as YBCO with transition temperatures above that of liquid nitrogen, sparked a worldwide research and development effort. Four years later, this special issue shows that the first applications of high-temperature superconductors are in filters and antennas. The 19 papers came from four different countries. Many of the components described in this issue will be tested in the Navy's High-Temperature Superconductivity Space Experiment, scheduled for launch in late 1992. This experiment should demonstrate that this new technology is sufficiently robust to survive the space environment and can significantly improve electronic systems.

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