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#### 电工理论与新技术

不同合金基体Bi2223带材传输损耗的测量和分析

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摘要: 减少交流损耗可以通过带材的扭绞、铠装层采用合金材料或在芯线之间引进一个电阻层来实现。为了研究高阻值基体材料对交流传输损耗的影响,准备了6个具有不同合金基体的Bi2223带材。在77 K下,测量了6个样品基体的电阻率,研究了Ag合金基体对Bi-2223带材交流传输损耗的影响。研究发现,在IO

关键词: 交流传输损耗 Bi2223带材 合金基体 n值 抗拉强度

AC Transport Losses Measurement and Analysis of Bi-2223/Ag Tapes With Different Alloy Matrix

FANG Jin QIU Ming ZHANG Yong SONG Xiu-hua

Abstract: The reduction of AC losses can be achieved by twisting of the tapes, alloying of the sheath or introducing a resistive barrier between the filaments. In order to study the effect of higher-resistivity matrix materials on the AC transport losses, six Bi2223 tapes with different alloy matrix have been prepared. Ag-alloy matrix resistivities of six samples were measured and the effect of Ag-alloy matrix on AC transport loss of Bi2223 tapes was investigated in 77 K. It was found that Ag-alloy matrix could decrease AC transport current losses for IO

Keywords: AC transport loss Bi2223 tapes alloy matrix n values tensile stress

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