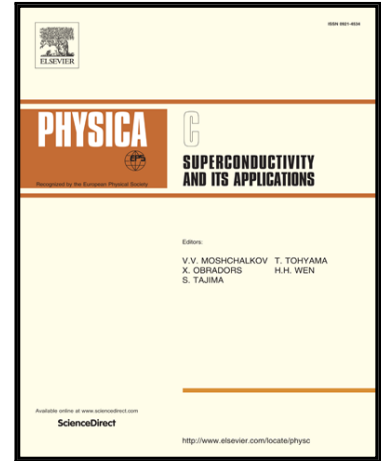


Accepted Manuscript

Optimization of Radial-type Superconducting Magnetic Bearing Using the Taguchi Method

Li wang Ai , Guomin Zhang , Wanjie Li , Guole Liu , Qi Liu

PII: S0921-4534(17)30387-8
DOI: [10.1016/j.physc.2018.03.013](https://doi.org/10.1016/j.physc.2018.03.013)
Reference: PHYSC 1253332



To appear in: *Physica C: Superconductivity and its applications*

Received date: 7 August 2017
Revised date: 30 January 2018
Accepted date: 4 March 2018

Please cite this article as: Li wang Ai , Guomin Zhang , Wanjie Li , Guole Liu , Qi Liu , Optimization of Radial-type Superconducting Magnetic Bearing Using the Taguchi Method, *Physica C: Superconductivity and its applications* (2018), doi: [10.1016/j.physc.2018.03.013](https://doi.org/10.1016/j.physc.2018.03.013)

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Highlights

- The levitation force of radial-type SMB is calculated using H -formulation FEM taking into account the influence of ferromagnetic material on the excitation field.
- The boundary condition of SC stator is imposed by harmonic series expressions to describe the traveling magnetic field generated by the moving PM rotor.
- The Taguchi method is adopted to analyze the average effects and relative importance of six variables and optimize the load capacity for SMB.

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