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Simulation and experimental validation of superconducting magnetic levitation suspension system

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This paper will discuss the combination and application of superconductivity technology and magnetic levitation technology, and study the current rapidly developing technology of superconducting magnetic levitation suspension system. The magnetic levitation force of the superconducting magnetic levitation suspension system will be analyzed and calculated. By building a simulation model, the operation process of the superconducting magnetic levitation suspension system and the parameter variation characteristics of the magnetic levitation force will be investigated. Meanwhile, a physical model of the superconducting magnetic levitation suspension system will be made and used for experimental studies to obtain relevant data for comparison and validation with the simulation model.

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