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Author Hsin Li Hou
Author's Email Address No Public.
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Abstract
High performance of clean room is necessary in order to produce high density of integrated circuit. Microscopic dust motes are mainly produced by personal entrance and semiconductor equipment. The bigger and bigger wafers are too weak to being manually moved. It is necessary to develop an automatic material transportation system among the manufacturing process in order to overcome the difficulty. The paper concerns with the research of the automatic material transportation system for semiconductor manufacturing application using magnetic suspension technology and focuses on the levitation control for magnetic levitated transport system. Developing a control algorithm to stabilize the system such that the transport system can be moved non-frictionally.
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