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Title: Modeling and Identification of Iron-less PMLSM End Effects for Reducing Ultra-low-velocity Fluctuations of Ultra-precision Air Bearing Linear Motion Stage

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Highlights

- A new algorithm to calculate the ironless PMLSM end effects is presented.
- A simplified thrust force model including end effects is established.
- Both static and dynamic methods are presented to identify the thrust force model.
- A compensation control algorithm is presented to reduce speed fluctuations.

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