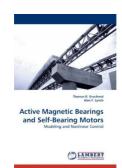
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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Modeling and Nonlinear Control | This dissertation covers aspects of modeling and control of magnetic levitation devices, specifically, active magnetic bearings (AMBs) and self-bearing motors (SBMs). Chapters 2-4 focus on AMBs and how they are used to levitate high-speed rotating shafts in a variety of applications. First principle modeling, parameter identification, and feedback control designs are discussed and demonstrated in practice on a commercially available test stand. Various control approaches are presented...

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