



Bewegungsgrößenerfassung in magnetgelagerten Antrieben mit berührungslosen magnetischen Sensoren

By Marco Schramm

Shaker Verlag Dez 2010, 2010. Buch. Condition: Neu. Neuware - These days active magnetic bearings are mostly used in large drives or special fields like vacuum or clean room technology. For the displacement detection of magnetically levitated rotors in high speed drives different types of sensor technologies are currently used. According to the respective operating conditions not each of these measuring systems is suitable. The static and dynamic transmission properties essentially define the performance of the magnetic bearing system. In spite of the variety of sensor principles their costs are very high comparing to all other system components, especially in smaller drive units. In this thesis a novel magnetic displacement sensor is presented, which fulfils the high requirements of measuring and control technology and is furthermore simple, robust and low-cost. The working principle is based on compensating current transformers and the sensor combines a direct measuring of displacement and whose velocity in one unit. By gathering both of these state space variables it is possible to realize a simply structured and observerless state space controller. Theoretic preliminary considerations by means of analytical and numerical calculations validate the general functionality for magnetic bearing applications. The result of the simulations and optimizations...



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