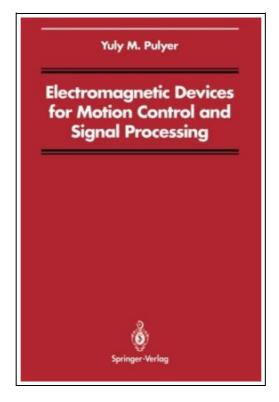
# **Electromagnetic Devices for Motion Control and Signal Processing (Paperback)**



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## Reviews

Basically no words to clarify. Of course, it is perform, still an amazing and interesting literature. Its been printed in an exceptionally basic way which is only soon after i finished reading through this ebook where actually altered me, change the way i really believe. (Newton Runolfsson)

## ELECTROMAGNETIC DEVICES FOR MOTION CONTROL AND SIGNAL PROCESSING (PAPERBACK)



Springer-Verlag New York Inc., United States, 2012. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*\*. This book is dedicated to electrical and mechanical engineers involved with the design of magnetic devices for motion con- trol and other instrumentation that uses magnetic principles and technology. It can be of benefit to graduate and postgrad- uate students to gain experience with electro-magnetic principles and also with different aspects of magnetic coupling mech- anisms and magnetic circuitry analysis for the design of devices such as electrical servo motors, tachogenerators, encoders, gyro- magnetic suspension systems, electro-magnetic strip lines, and other electro-magnetic instruments. The rapidly growing areas of production automation, robotics, precise micro-electronics, and pilot navigation place demands on motion control technology in terms of accuracy, reliability, cost effectiveness, and miniaturization. New ferromagnetic materials having quasi-linear and non-linear high-squareness characteris- tics as well as high-energy permanent magnets, fine lithography, and high-temperature superconductivit.y (t.o be expected com- mercially) motivate the implementation of new motion control components that exploit these new materials and technologies. This book presents classical miniature electrical machine de- signs as well as several modifications in the geometry of mag- netic couplings which lead to new motor and encoder design methodologies and other motion control devices such as new coil deposition patterns for incremental and absolute encoders, free spherical gyro suspension in a traveling magnetic field for navigation instrumentation, and magnetic strip lines in combi- nation with resistive and capacitive media to generate a variety of low-noise LC filters and other signal processing devices. Softcover reprint of the original 1st ed. 1992.



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