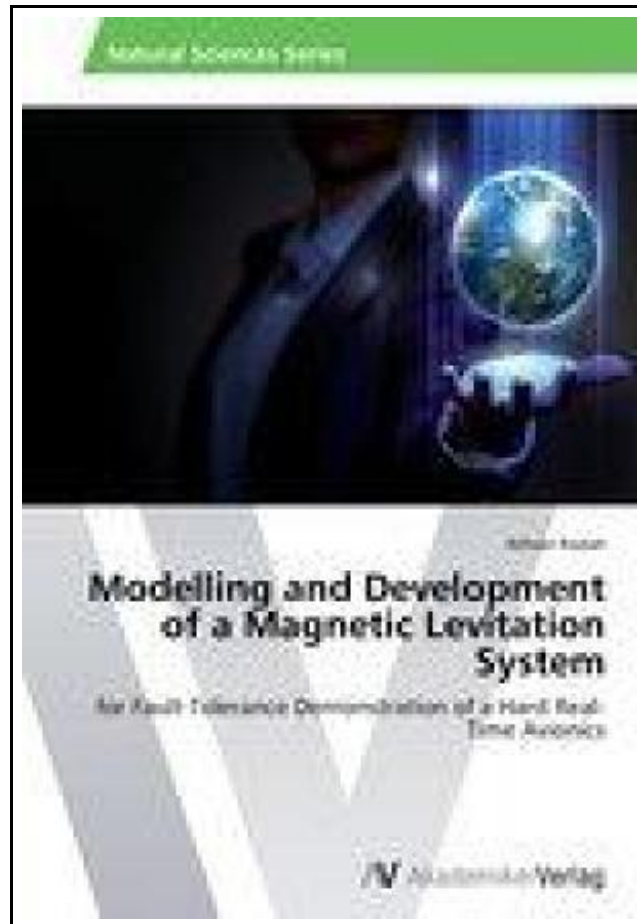


Modelling and Development of a Magnetic Levitation System



Filesize: 2.64 MB

Reviews

A superior quality book and also the font employed was fascinating to learn. I could possibly comprehend almost everything using this created e publication. You wont sense monotony at at any time of your respective time (that's what catalogs are for about should you ask me).

(Lucile Morissette)

MODELLING AND DEVELOPMENT OF A MAGNETIC LEVITATION SYSTEM



AV Akademikerverlag Apr 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x8 mm. This item is printed on demand - Print on Demand Neuware - Magnetic levitation technology has evolved as an important consideration in designing and developing systems with frictionless guidance and suspension. The main objective undertaken in this thesis is to create a model and develop a magnetic levitation system capable of levitating and moving a ferromagnetic object by means of a real-time controlled magnetic field generated by a set of electromagnets. An analytical mathematical model describing the electromechanical dynamics of the system is obtained and identified. In addition, a simplified and more efficient mathematical model based on experimental data is investigated. Three different vertical direction controllers based on different nonlinear control theories: Jacobian Linearization, Feedback Linearization and Sliding Mode Control, are proposed and validated. The mechanical components of a three-dimensional magnetic levitation system with simple position control scheme are designed and analyzed. A concept of digital control system consist of microcontroller based digital controller, position sensor system and digitally controlled power drivers is developed and implemented to track a reference position signal. Finally, the procedure of integrating the designed system into a suggested avionics system concept to estimate the performance of the avionics system's fault-tolerance capability is discussed as a basis for future work. 136 pp. Englisch.



[Read Modelling and Development of a Magnetic Levitation System Online](#)



[Download PDF Modelling and Development of a Magnetic Levitation System](#)

You May Also Like



A Dog of Flanders: Unabridged; In Easy-to-Read Type (Dover Children's Thrift Classics)

Dover Publications, 2011. Paperback. Book Condition: New. No Jacket. New paperback book copy of A Dog of Flanders by Ouida (Marie Louise de la Ramee). Unabridged in easy to read type. Dover Children's Thrift Classic....

[Save ePub »](#)



Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG,...

[Save ePub »](#)



Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers...

[Save ePub »](#)



Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age

Adams Media Corporation. Paperback. Book Condition: new. BRAND NEW, Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age, David Dutwin, TV. Web Surfing. IMing. Text Messaging. Video...

[Save ePub »](#)



Anna's Fight for Hope: The Great Depression 1931 (Sisters in Time Series 20)

Barbour Publishing, Inc., 2004. Paperback. Book Condition: New. No Jacket. New paperback book copy of Anna's Fight for Hope: The Great Depression 1931 (Sisters in Time Series 20). Publisher recommended for ages 8 to 12...

[Save ePub »](#)



The genuine book marketing case analysis of the the lam light. Yin Qihua Science Press 21.00(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2007-01-01 Pages: 244 Publisher: Science Press Welcome Our service and quality

[Read Document »](#)



First Fairy Tales

Board book. Book Condition: New. Not Signed; This is a traditional story that is retold in rhyme in this chunky padded boardbook. When a couple of tailors offer to make a suit from material so

[Read Document »](#)



Skills for Preschool Teachers, Enhanced Pearson eText - Access Card

Pearson Education (US), United States, 2016. Online resource. Book Condition: New. 10th edition. 279 x 216 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing

[Read Document »](#)



31 Moralistic Motivational Bedtime Short Stories for Kids: 1 Story Daily on Bedtime for 30 Days Which Are Full of Morals, Motivations Inspirations

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Reading to children is a wonderful activity and past time that both parents

[Read Document »](#)



Multiple Streams of Internet Income

Wiley. Hardcover. Book Condition: New. Hardcover. 279 pages. Dimensions: 9.3in. x 6.2in. x 1.2in.Praise for MULTIPLE STREAMS OF INTERNET INCOMEIf ever the world needed some help to succeed on the Internet, this is the moment.

[Read Document »](#)