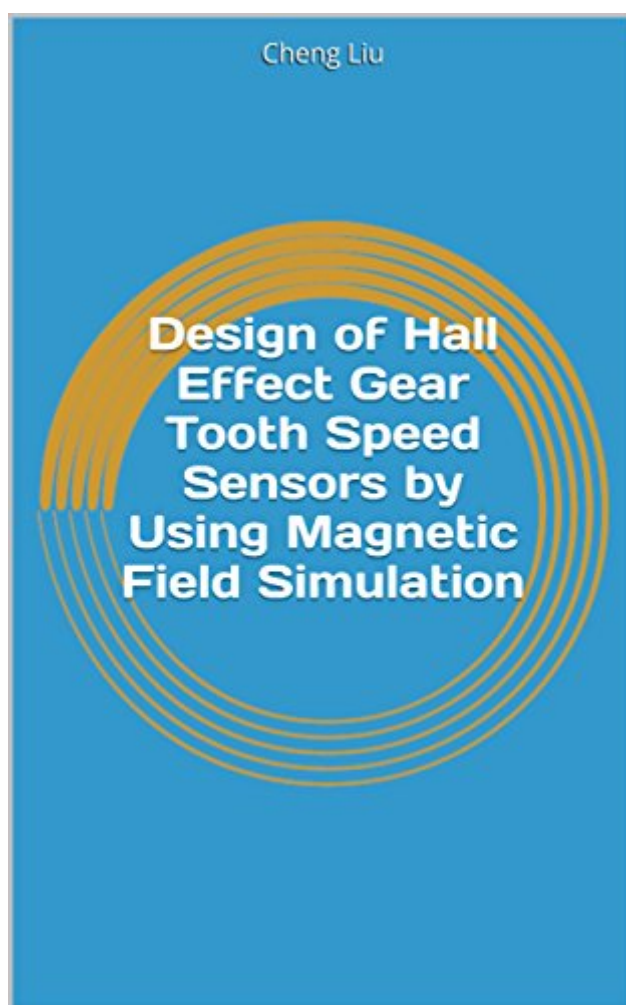


The book was found

Design Of Hall Effect Gear Tooth Speed Sensors By Using Magnetic Field Simulation



Synopsis

In this paper design of Hall Effect Gear Tooth Speed Sensors by using Magnetic Field Simulation (MFS) is proposed for shortening development time and saving high experimental costs. The MFS is implemented with the software Ansoft Maxwell. The deviation between the simulation and measured results of magnetic flux density passed through Hall IC during rotating the target gear is corrected by a proposed calibration algorithm of adapting input parameters of the MFS. The presented methods are applied to the design and optimization of speed sensor CYGTS101DC-S and its target gear. After the optimization the duty cycle of the sensor output impulse is about 50% with relative error within $\pm 2\%$, and the sensing gap reaches 3.5mm.

Book Information

File Size: 743 KB

Publication Date: August 31, 2016

Sold by: Digital Services LLC

Language: English

ASIN: B01LD9A2VS

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #694,320 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #91

in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Mechanical >

Drafting & Mechanical Drawing #112 in Books > Engineering & Transportation > Engineering >

Electrical & Electronics > Electronics > Sensors #422 in Books > Engineering & Transportation >

Engineering > Mechanical > Drafting & Mechanical Drawing

[Download to continue reading...](#)

Design of Hall Effect Gear Tooth Speed Sensors by Using Magnetic Field Simulation Speed

Training for Combat, Boxing, Martial Arts, and MMA: How to Maximize Your Hand Speed, Foot

Speed, Punching Speed, Kicking Speed, Wrestling Speed, and Fighting Speed Handbook of Digital

Techniques for High-Speed Design: Design Examples, Signaling and Memory Technologies, Fiber

Optics, Modeling, and Simulation to Ensure Signal Integrity Speed Reading: Triple Your Reading

Speed in Less than 24 Hours: The Comprehensive Guide to Speed Reading and Skyrocketing Your

Productivity Speed of Thought = Speed of Play: 25 Training Sessions That Increase Speed of Play
In Soccer Speed Reading: The Comprehensive Guide To Speed Reading â “ Increase Your
Reading Speed By 300% In Less Than 24 Hours Introduction to Scientific Programming and
Simulation Using R (Chapman & Hall/CRC The R Series) Introduction to Scientific Programming
and Simulation Using R, Second Edition (Chapman & Hall/CRC The R Series) Seashells i-Clip
Magnetic Page Markers (Set of 8 Magnetic Bookmarks) Throw Your Tooth on the Roof: Tooth
Traditions from Around the World Our Cuisinart Ice Cream Recipe Book: 99 Ways to Frozen Yogurt,
Soft Serve, Sorbet or MilkShake that Sweet Tooth! (Sweet Tooth Endulgences) (Volume 1) Our
Cuisinart® Ice Cream Recipe Book: 125 Ways to Frozen Yogurt, Soft Serve, Sorbet or MilkShake
that Sweet Tooth! (Sweet Tooth Indulgences) Atmospheric and Space Flight Dynamics: Modeling
and Simulation with MATLAB® and Simulink® (Modeling and Simulation in Science, Engineering
and Technology) Molecular Simulation Studies on Thermophysical Properties: With Application to
Working Fluids (Molecular Modeling and Simulation) Cause & Effect: The September 11 Attacks
(Cause & Effect in History) Making Things Talk: Using Sensors, Networks, and Arduino to See,
Hear, and Feel Your World Engineering Design Optimization using Calculus Level Methods: A
Casebook Approach: Math Modeling, Simulation, & Optimization Field-Effect Transistor Amp
Analysis and Design Airplane Design Part IV: Layout Design of Landing Gear and Systems (Volume
4) Mechatronic Hands: Prosthetic and Robotic Design (Iet Control, Robotics and Sensors)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)