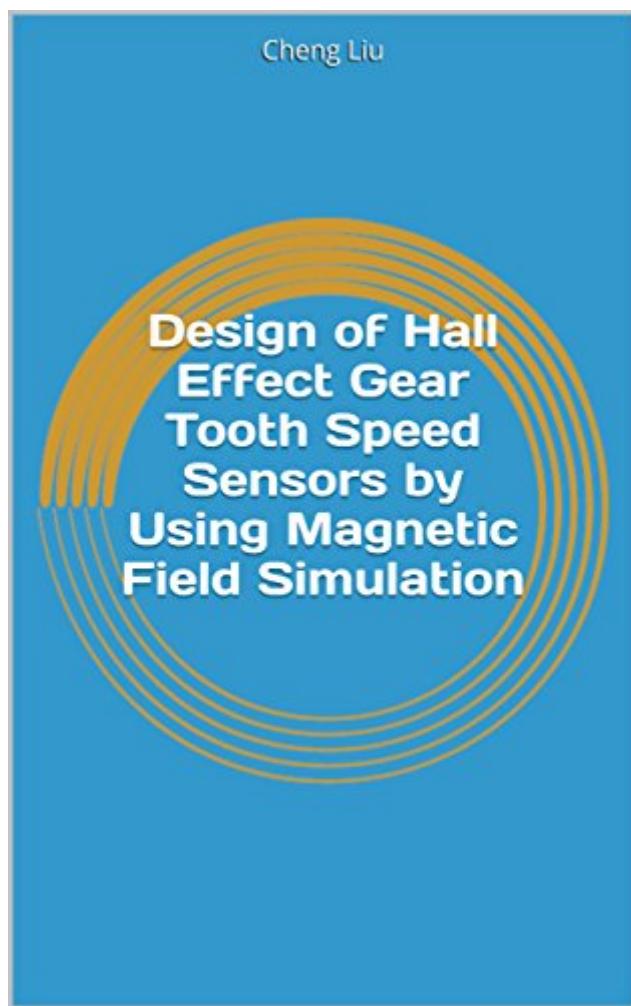


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# Design Of Hall Effect Gear Tooth Speed Sensors By Using Magnetic Field Simulation



## 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

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