



## Hall-Effect Sensors, Second Edition: Theory and Application

By Ramsden, Edward

Newnes, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1. Hall Effect Physics The theory and math behind the Hall effect. 2. Practical Hall Effect Transducers Key characteristics, integrated Hall transducers, transducer geometry, examples. 3. Transducer Interfacing Modeling Hall transducers, biasing, amplifiers, temp. compensation, offset adjustment. 4. Integrated Sensors, Linear and Digital Devices Linear sensors, switches and latches, speed sensors, application-specific devices. 5. Interfacing to Integrated Hall Sensors Interface issues, line driver circuits, the pull-up resistor, interfacing to standard logic devices, discrete logic, driving loads, LED interface, incandescent lamps, relays, solenoids, and inductive loads, wiring reduction schemes, encoding and serialization, digital to analog encoding, voltage regulation and power management. 6. Proximity Sensing Techniques Head-on sensing, slide-by sensing, magnet null-point sensing, float-level sensing, linear position sensing, rotary position sensing, Vane switches, 7. Current Sensing Resistive current sensing, free-space current sensing, toroidal current sensors, digital current sensor, closed-loop current sensors. 8. Speed and Timing Sensors Competitive technologies, magnetic targets, vane switches, gear-tooth sensing, single-point sensing, differential fixed threshold, differential variable-threshold, speed and direction sensing. 9. Application-Specific Hall Sensor ICs Micro-power switches, two-wire switches, networkable sensors, power devices, smart motor control. 10. Development Tools for Hall...

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