

Hall Effect Devices: Magnetic Sensors and Characterization of Semiconductors (Series in Sensors)

R.S. Popovic

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Hall Effect Devices: Magnetic Sensors and Characterization of Semiconductors focuses on electron devices whose principle of operation is based on the classical Hall effect, and are used mainly as magnetic sensors and as means for characterizing semiconductors. Examples of these devices include Hall plates, magnetotransistors, and magnetodiodes. The book provides a self-contained description of the galvanomagnetic phenomena and modern device physics of Hall elements and related devices. It discusses the main concepts and physical principles of interface electronics, and carefully selected examples illustrate the arguments and provide a picture of the state of the art. The book also covers advances in the field, in particular the most important developments inspired by the progress in microelectronics.

Hall Effect Devices serves as a useful reference for postgraduate engineers and scientists involved in the research and development of magnetic sensors as well as for those who apply the Hall effect as a means of exploring the basic electronic properties of solids or for characterizing semiconductor materials.



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