



# Thin Film Magnetoresistive Sensors (Series in Sensors)

*S Tumanski*

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## **Thin Film Magnetoresistive Sensors (Series in Sensors) S Tumanski**

Thin Film Magnetoresistive Sensors presents a comprehensive review of thin film magnetoresistive (MR) sensors, including the theory of MR effects as well as the design, fabrication, properties, and applications of MR sensors. With over 1,000 references, the book fully reviews the theory, development, and use of these sensors. It provides essential information about the performance of various kinds of sensors, including permalloy magnetoresistors, spin valve sensors, multilayer sensors, colossal effect sensors, spin dependent tunneling sensors, and magnetoimpedance sensors.

Divided into three independent parts, the book first concentrates on the most widely used sensors-anisotropic magnetoresistive sensors (AMR). The second part deals with giant magnetoresistive (GMR) sensors, including those still in development. In the third section, the book describes the applications of MR sensors, especially in data storage systems, industrial measurements, and nondestructive material testing systems.

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