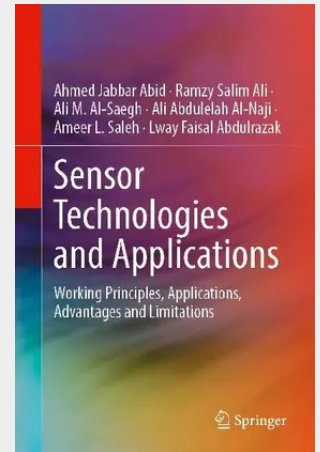


Sensor Technologies and Applications

Working Principles, Applications, Advantages and Limitations

This book is a comprehensive guide that explores the world of modern sensor technologies and their real applications. The authors take readers from fundamental concepts such as data acquisition, signal conditioning, and communication protocols, through a detailed study of a wide range of sensors including physical, magnetic, force, motion, flow, level, gas, water quality, medical, aviation, and weather sensors. Coverage also includes emerging trends such as AI integration, energy harvesting, and smart sensing systems, along with practical implementation examples using tools like Proteus. This book bridges theory and practice, providing a clear and structured understanding of how sensors transform physical phenomena into actionable data that powers today's intelligent systems in IoT, healthcare, industry, and beyond.

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