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Why use smart materials?

Since most smart materials do not add mass, engineers can endow structures with built-in responses to a myriad of contingencies. In their various forms, these materials can adapt to their environments by changing characteristics and can provide information about structural and environmental changes.

A single source on numerous aspects of intelligent materials

Smart Materials focuses on many types of novel materials, including ceramics, hybrid composites, shape memory alloys, chitosan-based gels, adhesives, oxides, polymers, flip-chip technology, magnetorheological fluids, electrorheological materials, nanotubes, and sensors. It highlights the interdisciplinary nature of these materials by showing how they can be used in scores of areas, such as drug delivery systems, health monitoring, fiber optics, nanoscale engineering, vibration control, and molecular imprinting.

Gain insight from leading experts who specialize in smart materials technology

With over fifty years of experience working and teaching in this field, the editor has compiled numerous insightful contributions from an extensive group of leading experts. In this volume, they share their expertise and explore the innovative progress that has occurred in smart material products, components, systems, and structures.