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Handbook of Nanophysics: Functional Nanomaterials illustrates the importance of tailoring nanomaterials to achieve desired functions in applications. Each peer-reviewed chapter contains a broad-based introduction and enhances understanding of the state-of-the-art scientific content through fundamental equations and illustrations, some in color. This volume covers various composites, including carbon nanotube/polymer composites, printable metal nanoparticle inks, polymer--clay nanocomposites, biofunctionalized titanium dioxide-based nanocomposites, nanocolorants, ferroic nanocomposites, and sma
