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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 smart composite systems. It also describes nanoporous materials, a giant nanomembrane, graphitic foams, arrayed nanoporous silicon pillars, nanoporous anodic oxides, metal oxide nanohole arrays, carbon clathrates, self-assembled monolayers, epitaxial graphene, and graphene nanoribbons, nanostructures, quantum dots, and cones. After focusing on the methods of nanoindentation and self-patterning, the book discusses nanosensors, nano-oscillators, and hydrogen storage.

Nanophysics brings together multiple disciplines to determine the structural, electronic, optical, and thermal behavior of nanomaterials; electrical and thermal conductivity; the forces between nanoscale objects; and the transition between classical and quantum behavior. Facilitating communication across many disciplines, this landmark publication encourages scientists with disparate interests to collaborate on interdisciplinary projects and incorporate the theory and methodology of other areas into their work.