Fall 10-14-2014

Learning Bio-Micro-Nanotechnology

Mel I. Mendelson
Loyola Marymount University

Follow this and additional works at: https://digitalcommons.lmu.edu/facultypubnight

Part of the Engineering Commons, and the Physics Commons

Recommended Citation
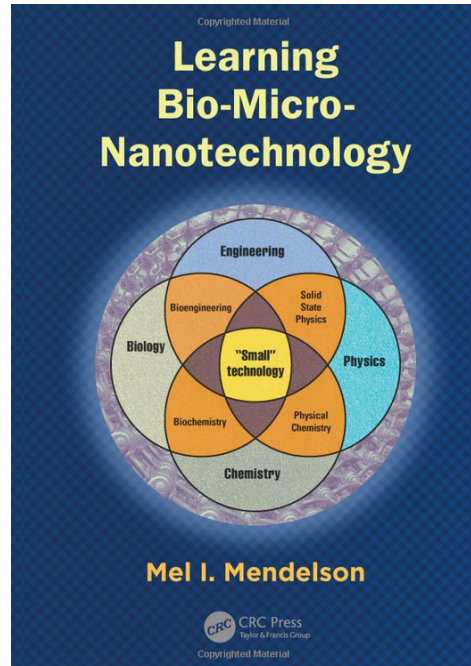
About the Author

Born in San Francisco, Mel was raised in the Bay Area (San Mateo). Captain of high school swim team; set league records in butterfly and individual medley, 1958-59. Graduated UC Berkeley, 1964 and worked as research assistant at Lawrence Berkeley Labs (high temperature deformation of MgO single crystals). Attended Northwestern University graduate school in materials science; performed M.S. thesis on grain growth in NaCl, 1966; Ph.D. thesis on fracture mechanics of composite materials, 1973. Fellow of American Ceramic Society and Institute for the Advancement of Engineering. See details on professional expertise in private industry. Ran three marathons (Boston and NY included), 1980-81. Obtained advanced training in design of experiments, 1974 and 1992, and molecular biology, 2005

About the Author's Work

Learning Bio-Micro-Nanotechnology is a primer on micro/nanotechnology that teaches the vocabulary, fundamental concepts, and applications of micro/nanotechnology in biology, chemistry, physics, engineering, electronics, computers, biomedicine, microscopy, ethics, and risks to humankind. It provides an introduction into the small world with a low fog index, emphasizing the concepts using analogies and illustrations to simplify the non-observables.