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Nanotechnology is now ubiquitous and deeply embedded in our dayto-day lives. Unknowingly, it has weaved seamlessly into various applications, making it impossible to look passed its importance. This volume is a compendium of review as well as research articles, providing a wide spectrum of bottom-up fabrication approaches and their utilization on multiple fronts. This volume will be valuable to scientists, academicians, engineers and students who are keen to discover the advances in nanotechnology for favorable materials construction techniques and applications in relation to human health, en