

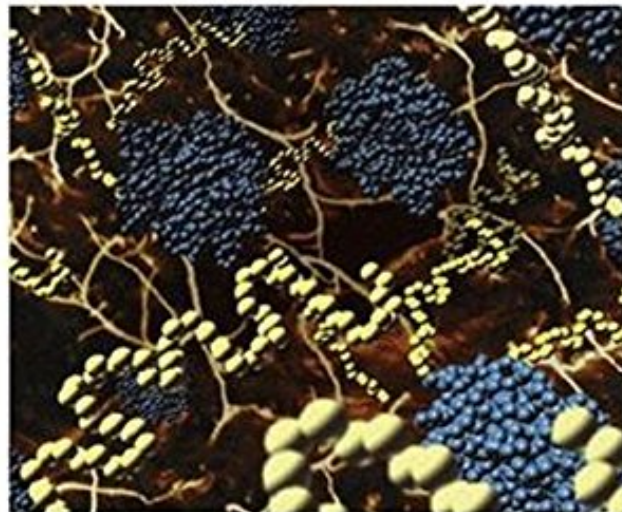
# Nanocomposite Science and Technology

*Pulickel M. Ajayan, Linda S. Schadler, Paul V. Braun*  
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Pulickel M. Ajayan,  
Linda S. Schadler, Paul V. Braun

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## Nanocomposite Science and Technology



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In recent years, nanocomposites have captured and held the attention and imagination of scientists and engineers alike. Based on the simple premise that by using a wide range of building blocks with dimensions in the nanosize region, it is possible to design and create new materials with unprecedented flexibility and improvements in their physical properties. This book contains the essence of this emerging technology, the underlying science and motivation behind

the design of these structures and the future, particularly from the perspective of applications. It is intended to be a reference handbook for future scientists and hence carries the basic science and the fundamental engineering principles that lead to the fabrication and property evaluation of nanocomposite materials in different areas of materials science and technology.

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In recent years, nanocomposites have captured and held the attention and imagination of scientists and engineers alike. Based on the simple premise that by using a wide range of building blocks with dimensions in the non-size region, it is possible to design and create new materials with unprecedented flexibility and improvements in their physical properties. This book contains the essence of this emerging technology, the underlying science and motivation behind the design of these structures and the future, particularly from the perspective of applications. It is intended to be a reference handbook for future scientists and hence carries the basic science and the fundamental engineering principles that lead to the fabrication and property evaluation of nanocomposite materials in different areas of materials science and technology.