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Nanocomposite materials: Trends and challenges

Carbon nanotubes (CNTs) have found to possess high strength and stiffness as well as high aspect ratio and low density, making them a strong candidate for the reinforcement in polymer composites. Existing research has reported that the mechanical and physical properties of CNTs are superior to those of carbon fibers. Therefore, in recent years, CNTs have been used for the reinforcement in composite, forming the CNT-reinforced composite. This CNT-reinforced composite can be used in the form of beam, plate or shell structural component. With the increasing research works devoted to this topic, it will be important to know the current trends and challenges of nanocomposite materials.

Biography

Kim Meow Liew is the Head of Department of Architecture and Civil Engineering and Chair Professor of Civil Engineering, City University of Hong Kong. Earlier, he was appointed as the Chair Professor of Building and Construction, City University of Hong Kong, a tenured Professor at Nanyang Technological University, Singapore and the Founding Director of Nanyang Center for Supercomputing and Visualization. He was a Visiting Professor of MIT, University of Southern California, University of Toronto and Tsinghua University. His research interests encompass computational mechanics, materials modeling, nanotechnology, plates and shells, engineering optimization and fire simulation. Over his academic career, he has published over 700 SCI journal articles. He is listed by the Institute for Scientific Information (ISI) as a Highly Cited Researcher in Engineering. His publications have been cited over 22000 times and his current H-index is 75 (Google Scholar).

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