Carbon Nanotube Reinforced Composites: Metal and Ceramic Matrices

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DESCRIPTION

Providing a broad insight into the potential applications of carbon nanotubes with metals and ceramic materials as a matrix, this book focuses on the preparation and the microstructural, physical, and mechanical characterizations of such novel nanocomposites. It features information on current synthesis and structure-property-relationships of metals and ceramics reinforced with CNT, organizing the vast array of surveys scattered throughout the literature in a single monograph. With its laboratory protocols and data tables this is invaluable reading for research workers and academics, as well as for applied scientists and industry personnel.

ABOUT THE AUTHOR

S.C. Tjong is currently a professor at the Department of Physics and Materials Science of the City University of Hong Kong. He received his M.Sc. and Ph.D. degrees from The University of Manchester (U.K.) in 1974 and 1976, respectively. Professor Tjong specializes in nanomaterials, ceramics, and in physical and mechanical properties of metal- and polymer matrix composites. He has published over 300 scientific papers in peer-reviewed journals, edited one previous book and authored twelve book chapters. He is a chartered engineer (U.K.), a chartered scientist (U.K.), a Fellow of The Institute of Materials, Mining and Minerals (U.K.), and a member of The American Chemical Society.