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Sommario/riassunto

This book presents readers with a comprehensive discussion on carbon-based nanocomposites and their critical role in addressing global sustainability challenges. By bridging the gap between materials science and real-world applications, this book serves as an invaluable resource for academic researchers, engineers, industry professionals, and advanced students in fields such as materials science, engineering, and environmental studies dealing with the unique properties of carbon-based nanomaterials. It provides a detailed view of carbon-based nanocomposites, offering both foundational knowledge and insights into cutting-edge applications that have the potential to drive sustainable progress in the coming years. This Volume Three, the third of three, focuses on the emerging applications of carbon-based nanocomposites in biomedicine, electronics, and catalysis. It explores their use in drug delivery, medical imaging, flexible electronics, photonic devices, sensors, and catalytic processes. The volume aims to showcase the flexibility of carbon-based nanocomposites and highlights their potential to revolutionize the technological sector, offering sustainable and cutting-edge solutions.
