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The book aims at explaining basics of eco-friendly polymer nanocomposites from different natural resources and their chemistry along with practical applications which present a future direction in the biomedical, pharmaceutical and automotive industry.

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Abstract: This chapter provides a brief overview on environmentally friendly polymer nanocomposite (EFPN) technology. The concept of polymer nanocomposites and the different environmentally friendly polymers, nano-fillers and processing techniques are described.

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In particular, the applicability of eco-friendly polymer nanocomposites to biomedical applications is a rapidly

emerging area of development. One area of intense research involves electrospinning for the production of bioresorbable nanofiber scaffolds for tissue engineering applications.

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Functionalized Graphene Oxide Nanocomposites as an Eco-Friendly Material Deepshikha Hazarika,â€• Kuldeep Gupta,â€• Manabendra Mandal,â€• and Niranjan Karak\*,â€• â€• Advanced Polymer and Nanomaterial Laboratory, Center for Polymer Science and Technology, ...

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