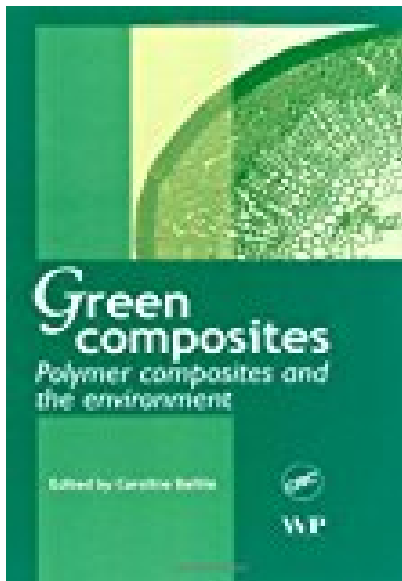


Green Composites Polymer Composites and the Environment Woodhead Publishing Series in Composites Science and Engineering



BOOK DETAILS

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BOOK SYNOPSIS

There is an increasing movement of scientists and engineers who are dedicated to minimising the environmental impact of polymer composite production. Life cycle assessment is of paramount importance at every stage of a product's life, from initial synthesis through to final disposal and a sustainable society needs environmentally safe materials and processing methods. With an internationally recognised team of contributors, Green Composites examines fibre reinforced polymer composite production and explains how environmental footprints can be diminished at every stage of the life cycle. The introductory chapters look at why we should consider green composites, their design and life cycle assessment. The properties of natural fibre sources such as cellulose and wood are then discussed. Chapter 6 examines recyclable synthetic fibre-thermoplastic composites as an alternative solution and polymers derived from natural sources are covered in Chapter 7. The factors that influence the properties of these natural composites and natural fibre thermoplastic composites are detailed in Chapters 8 and 9. The final four chapters consider clean processing, applications, recycling, degradation and reprocessing. Green composites is an essential guide for agricultural crop producers, government agricultural departments, automotive companies, composite producers and material scientists all dedicated to the promotion and practice of eco-friendly materials and production methods. Reviews fibre reinforced polymer composite production Explains how environmental footprints can be diminished at every stage of the life-cycle

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