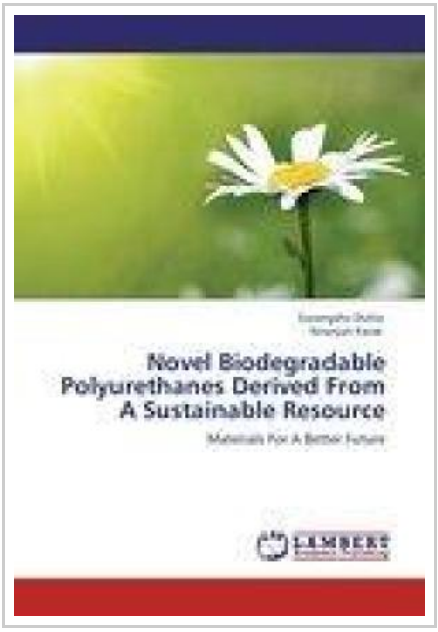

Novel Biodegradable Polyurethanes Derived From A Sustainable Resource

By Suvangshu Dutta

LAP Lambert Academic Publishing Mai 2012, 2012. Taschenbuch. Book Condition: Neu. 220x150x13 mm. This item is printed on demand - Print on Demand Neuware - Research and development works in the realm of vegetable oil based polymeric materials have attracted increasing worldwide attention in recent years. This book highlights the utilization of vegetable oil, a sustainable resource, in the development of polyurethane resins in a systematically organised manner. In addition, various literatures regarding vegetable oil based polyurethane resins have been reviewed. The experimental part of the study describes our attempts to prepare, characterize and evaluate the properties of polyurethane resins based on Mesua ferrea L. seed oil. The book demonstrates that blending with commercial resins, formation of natural fibre decorated green composites and nanoclay incorporated nanocomposites lead to improvement in the performance characteristics of the prepared resins as coating materials. Biodegradability and cytotoxicity assessment of the blends and nanocomposites add value to the developed polyurethanes as novel biomaterials. The acceptable performance as binder for industrial stoving paints unmasks the industrial applicability of the prepared resin systems. Finally, the book discusses the major aspects and future scopes of the current work. 212 pp. Englisch.

Reviews

This book will be worth getting. Better then never, though i am quite late in start reading this one. Its been written in an extremely basic way which is only right after i finished reading this book through which actually altered me, alter the way i believe.

-- ***Mr. Enrico Lesch***

The most effective pdf i ever go through. It is probably the most incredible book i have got study. You wont sense monotony at at any time of the time (that's what catalogues are for relating to if you check with me).

-- ***Ahmad Heaney***