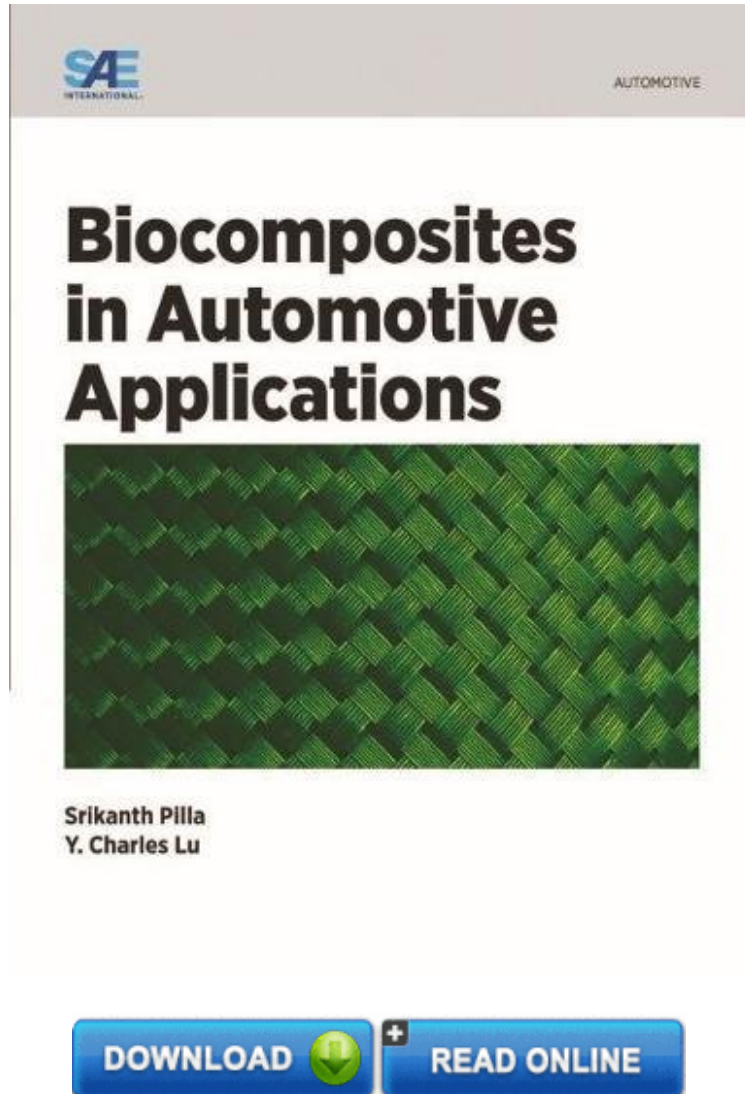


Biocomposites in Automotive Applications

Srikanth Pilla Charles Lu

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#6719504 in Books 2015-08-13 #File Name: 0768081483138 pages | File size: 21.Mb

Srikanth Pilla Charles Lu : Biocomposites in Automotive Applications before purchasing it in order to gage whether or not it would be worth my time, and all praised Biocomposites in Automotive Applications:

The automotive sector has taken a keen interest in lightweighting as new required performance standards for fuel economy come into place. This strategy includes parts consolidation, design optimization, and material substitution, with sustainable polymers playing a major role in reducing a vehicle's weight. Sustainable polymers are largely biodegradable, biocompatible, and sourced from renewable plant and agricultural stocks. A facile way to enhance their properties, so they can indeed replace the ones made from fossil fuels, is by reinforcing them with fibers to make composites. Natural fibers are gaining more acceptance in the industry due to their renewable nature, low cost, low density, low energy consumption, high specific strength and stiffness, CO₂ sequestration potential, biodegradability, and less wear imposed on machinery. Biocomposites then become a very feasible way to help address the fuel

consumption challenge ahead of us. This book, entitled *Biocomposites in Automotive Applications*, is segmented into three sections and includes eleven hand-picked technical papers covering: * Processing and characterization of biocomposites* Automotive applications of biocomposites* A perspective on automotive sustainability It is a must read for those interested in the growing importance of composites used in automotive applications and their impact on sustainable mobility.