

Nowadays, the world faces unprecedented challenges in social, environmental and economic dimensions. In particular, the automotive industry confronts a moment of crises, and based on the ecodesign it has been transforming the challenges in opportunities. In this context, the use of natural fibers has presented several advantages to design greener automotive components. Thus, this work presents an integrated approach to introduce environmental concerns in SMEs, based on natural composite materials. Jute fibers were investigated to replace glass fibers as reinforcement to produce structural composites. The surfaces of the jute fibers were modified by treatments, improving their wetting behaviour and the mechanical properties of the composites. The characterization of the composites was obtained different tests and methods. Through an automotive case study, the results show the importance of the environmental parameters for the project. They demonstrated the advantages of replacing glass fiber for jute fiber composites to produce the enclosures of the Buggy case study, corroborating with the Triple Bottom Line concept.

The Surprise Party (Fear Street, No. 2), Jack Russell Good Food Guide, Drafting & Design, Jimmy Mack, El Hombre y La Madera (Spanish Edition), The Art of the Formula 1 Race Car by Codling, Stuart (2014) Hardcover, 1853 Cavalry Quest for a Southwest Railroad Route (Facts and Legends of the Village of Palm Springs), Nursing: Transition to Professional Practice (Prepare For Practice), Further Essays on Economic Theory and Policy (Collected Economic Essays, Vol 9),

Sustainable Design of Automotive Components Through Jute Fiber Composites: an Integrated Approach - How to Link and Reference IntechOpen, Published. Sustainable Design of Automotive Components Through Jute Fiber Composites: an Integrated Approach. Chapter (PDF Available) · January.

Sustainable Design through jute fiber composite. An integrated approach. LAP LAMBERT Academic Publishing (). Price €19.90.

Natural fiber reinforced polymer composites have recently received substantial Ramie and Jute are the selected natural fibers and the comparison is done with the Sustainable material selection [4]: P. Pecas, E. Henriques and I. Ribeiro, "Integrated Approach to Product and Process Design Based on Life Cycle. plant fibers such as jute, flax, hemp, sisal and ramie because of the . The tool can be used as an integrated approach to assist in design. In general the jute fiber composites are great strength, low cost and low density and itA?â€šÂ–â€ž?s have enough Analysis The Mechanical Behaviour Of Jute Fiber Composite An Integrated Approach .. Sustainable Design of Automotive.

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