

Static Structural Analysis of Automobile Hood using Natural Hybrid Fiber Composite

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Abstract: *Natural fibres are a kind of renewable source and a replacement generation of reinforcements and supplements for polymer-based materials. The event of natural fibres composite materials or environmentally friendly composites has been a hot topic recently because of the increasing environmental awareness. Natural fibres are one such skilful material that replaces the artificial materials and its connected product for the less weight and energy conservation applications. the appliance of natural fibres bolstered compound composites and natural-based resins for replacement existing synthetic polymer or glass fibres reinforced materials in large. Automotive and aircrafts industries are actively developing different styles of natural fibres, primarily on hemp, flax and sisal and bio resins systems for their interior components. High specific properties with lower costs of natural fibres composites are making it attractive for various applications. within the gift study automobile hood is analysed for hybrid material. From the analysis it's evident that the material is maintaining its structural integrity for given loading condition.*

Keywords: Natural Fibres, Composites, Hybrid, Automobile Hood, Static Analysis, etc.

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