Natural fibres such as flax, hemp, kenaf, jute, coir, oil palm, cotton, etc. are abundantly available worldwide and already established in automotive, and construction industries due to its sustainable and renewable nature. Nowadays natural fibres are getting attention of researchers and academician to utilize in different application but it has limiting utilization due to moisture absorption, less thermal stability, and difficulty to get quality fibre supply. Nowadays nano filler based polymeric materials display better utilization in different applications. Recent studies reported about hybridization of nanoclay with natural fibre reinforced polymer composites which display better mechanical and thermal properties as compared to natural fibre composites. The proposed book is focused on nanoclay based natural fibre reinforced polymer composites fabrication, characterization and applications. It will also including the effect of Nanoclay on the mechanical, thermal, morphological, tribiological, and flammability properties of natural fibre composites. The readers found complete information about recent development, mechanical, morphological, thermal and rheological properties, processing techniques of natural fibre/nanoclay composites, mechanical performance of cellulose particulate, effects of micro- and nano- cellulose on tensile and morphological properties of Montmorillonite/Nanoclay, tribological properties of hybrid composites, effect of plasticizer on fracture toughness of Polylactic Acid (PLA)/Kenaf Fiber (KF)/Montmorillonite organoclay and dielectric properties, impedance spectroscopy and transport properties and its application in functional materials.

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