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| Titolo | Bast Fibers and Their Composites : Processing, Properties and Applications // edited by G. Rajeshkumar, G.L. Devnani, Shishir Sinha, M.R. Sanjay, Suchart Siengchin |
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| Descrizione fisica | 1 online resource (266 pages) |
| Collana | Springer Series on Polymer and Composite Materials, , 2364-1886 |
| Disciplina | 620.118 |
| Soggetti | Building materials Composite materials Polymers Electronics - Materials Wood, fabric, and textiles Composites Electronic Materials |
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| Nota di contenuto | 1. Introduction to bast fibers -- 2. Effect of extraction methods on the properties of bast fibres -- 3. Chemical modifications of natural fiber surface and their effects -- 4. Physical modification of bast fibres surface and their effects -- 5. Green methods for surface modification of bast fibers -- 6. Surface modification and its effect on interfacial properties -- 7. Manufacturing aspects of bast fiber-based composites -- 8. Thermal stability of polymer composites reinforced with bast fibers -- 9. Water absorption behavior of bast fibers incorporated polymer composites -- 10. Rheological properties of bast fibre composites -- 11. Dielectric properties of bast fibre composites -- 12. Biodegradable bast fiber- based composites -- 13. Free vibration characteristics of bast fiber-based polymeric composites -- 14. Characterization of bast fiber composites added with nano reinforcements. |
| Sommario/riassunto | This edited book focuses on processing, properties, and applications of bast fiber and its composites written by renowned researchers and |

academicians. The contents focus on properties such as rheological and dielectric of bast fiber composites. It also discusses its dynamic mechanical analysis, thermal stability of polymer composites reinforced with bast fibers, and water absorption behavior of bast fiber incorporated polymer composites. This book will be beneficial to both the industry and academia as it highlights possible avenues of future research.
