Preface

The development of cellulose composites is a very challenging task due to the different physical and mechanical properties of natural fibers and biodegradable matrices. The chemical compositions of natural fibers like cellulose, hemicellulose, lignin, and wax vary depending on the types of fibers and their processing routes. The aim is to discuss factors that are directly dependent on the physical, chemical, and mechanical properties of cellulose composites that may influence the selection of composite materials for product development. The chemical treatments of natural fibers are one of the important processing techniques before reinforcing them into matrix materials. This book emphasizes (a) the influence on processing parameters in understanding the composite fabrication process, (b) deliberations on laminate joining, and (c) failure prediction of composite laminates, highlighted with a suitable diagram.

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