

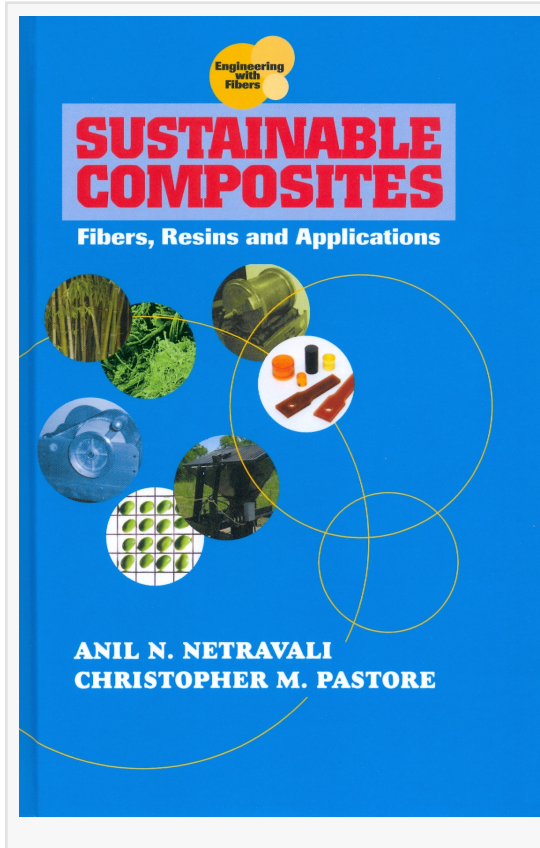
New Book on Sustainable Composites

- *Comprehensive introduction to composites from natural and recycled biomaterials*
- *Applications to construction, automotive, and civil engineering*

LANCASTER, PA, USA, April 21, 2015 /EINPresswire.com/ -- (Lancaster, PA, USA; September 2014) — [DEStech Publications](#), Inc. announces the publication of [Sustainable Composites: Fibers, Resins and Applications](#), edited by Anil N. Netravali, professor at Cornell University and Christopher M. Pastore, professor at Philadelphia University. ISBN978-1-60595-111-9, ©2015, 562 pages, 6x9, Hardcover, \$189.50; "Highly Recommended" from CHOICE Reviews, American Library Association; Contact Michael: mhauck@destechpub.com for more information.

An important contribution to the evolution of composites technology, this book is a systematic investigation of how natural biomaterials are used to create cost-effective and environmentally sound composites for commercial use. The book shows how a wide range of plant- and animal-based materials are integrated into the design and fabrication of matrices and reinforcements for polymeric and other types of

composites. In addition, a focus is placed on modeling and mechanical analyses of biobased composites, providing valuable data on their performance. Sustainable composites are shown to be viable alternatives for manufactured components in automotive, civil engineering and construction applications.



“

This well-written, enjoyable work adds to the growing literature on materials from sustainable/renewable resources.

P. G. Heiden, Michigan Technological University

Book Review:

This well-written, enjoyable work adds to the growing literature on materials from sustainable/renewable resources. Netravali (Cornell Univ.) and Pastore (Philadelphia Univ.) describe a wide range of material sources and uses, mostly plant-based, but they also include some insect and bacterial-sourced materials. The content seems easily accessible to readers who do not have a significant background in chemistry or depth of familiarity with physical/mechanical properties.....In that way their text will appeal to a broader audience than other

texts do but still be a good read for the more technically advanced readership.

--P. G. Heiden, Michigan Technological University

TABLE OF CONTENTS

1. The Future of Green Materials
2. Biopolymers as Resins for Fabrication of Films and Nanocomposites

3. Vegetable Oil-Based Resins and Composites
4. Soy and Starch-Based Resins
5. Sustainable Additives
6. Cellulosic Fibers: A Brief Review
7. A History of the Use of Feathers in Textile Applications
8. Natural Fiber Composites from Agricultural By-products: An Overview
9. Polysaccharide Composites
10. Green Composites Using Bamboo
11. Renewable Biobased Composites for Civil Engineering Applications
12. Natural Fiber Composites and Their Hollow Core Panels
13. Physical and Chemical Properties of Alkali-Activated Fly Ash Materials
14. Mechanical Properties of Natural Fiber Composites
15. Stochastic Processes in Modeling the Strength of Composites

Michael Hauck
DEStech Publications, Inc.
717-290-1660 Ex: Michael
email us here

This press release can be viewed online at: <http://www.einpresswire.com>

Disclaimer: If you have any questions regarding information in this press release please contact the company listed in the press release. Please do not contact EIN Presswire. We will be unable to assist you with your inquiry. EIN Presswire disclaims any content contained in these releases.

© 1995-2015 IPD Group, Inc. All Right Reserved.