



# Composite Nonwoven Materials: Structure, Properties and Applications (Woodhead Publishing Series in Textiles)

By Dipayan Das, Behnam Pourdeyhimi

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Composite nonwoven materials are versatile materials with a variety of applications, including hygiene, medicine and filtration. This important book provides a technical resource for professionals and academics in the field. It explores these materials in terms of fiber types used, manufacturing processes, structure, and physical properties.

The first part of the book focuses on the use of natural and synthetic fibers in composite nonwovens, discusses their structure in terms of fiber packing and alignment, and their physical properties. Further chapters deal with the practical applications of composite nonwoven materials. Hygiene applications, such as diapers, female sanitary products, incontinence pads, and wipes are covered, as well as composite nonwoven-based medical products and filters.

*Composite Nonwoven Materials* is an ideal reference for R&D managers in the textile industry and academic researchers in textile science.

- Systematic and comprehensive information on composite nonwovens
- Critical review of progress in research and development on composite nonwovens
- Comment on future research direction and ideas for product development

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### Editorial Review

#### Review

"...reviews fibre types used in these materials, manufacturing processes, structure and physical properties, and also applications in such areas as absorbent hygiene products..."--**Asian Technical Textiles**

#### From the Back Cover

Composite nonwovens are advanced technical materials that have a wide range of applications. *Composite nonwoven materials* reviews the fibres used in these materials and the structure, properties, and applications of these materials.

The book begins with an overview of composite nonwovens. It then explores the natural and synthetic fibres used in composite nonwovens. Afterwards it examines the structure and properties of composite nonwovens. Finally it highlights the use of composite nonwovens in a variety of medical and technical applications.

Composite nonwoven materials is a technical resource for R&D managers and other professionals in nonwovens and allied industries and academic researchers in textile science.

Dipayan Das is an Associate Professor at the Indian Institute of Technology, Delhi, India. Behnam Pourdeyhimi is a Professor at North Carolina State University, USA

#### About the Author

*Dipayan Das* is assistant professor, Dept. of Textile Technology, Indian Institute of Technology Delhi.

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