

Coated and laminated textiles



Walter Fung



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The Textile Institute



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Dedicated to all my teachers and to all those who have shared their knowledge with me. 'When you drink water, remember the source.'

*Walter Fung
(Feng Qing Xiang)*

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In writing this textbook it has been the author's intention to produce a work of reference for everyone involved in the business of coated and laminated textile products. Products generally begin with the technologist or marketing specialist who initiates the development, progressing to laboratory staff who carry out pre-production preparatory work and the machine operatives who actually produce the goods, through to the technical service specialist and the salesman who meet the customer. Some focus is on why particular starting materials are used and what specialist properties they possess, because from this comes an understanding of how the materials will behave during production and use. This knowledge is important if problems are to be solved as they arise in the plant so that quality coated or laminated fabric can be produced consistently. This understanding is also essential to the investigation of customer complaints or concerns, and finally – but at least equal in importance to all the other considerations – it enables innovation and the design of new or improved products. Existing products are described in some detail, including background information, so that opportunities for improvements and new product innovation may be identified quickly, especially through making use of the new materials and technology which seem to be becoming available almost on a weekly basis.

The book is written in a clear, concise manner – generally free of intimidating (for the layman) chemical formulae and mathematical equations. Little previous knowledge of the industry or subject is assumed, but it is hoped that the underlying scientific principles are explained adequately for readers to understand why compounds contain different ingredients and why it is important to set processing conditions carefully and adhere to them. Included in the book are properties of materials, details of material preparation and actual processing conditions – some from a 'hands on per-

spective.' Production management and sales and marketing aspects are also discussed. Test methods are presented along with comments, and the scope for research and new product development is reviewed, together with a section devoted to sources of further information for more detailed