

Physical testing of textiles

B P Saville



The Textile Institute



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This book arose out of a need, when teaching textile testing at Huddersfield University, for a modern volume on the subject to which students could be referred. The approach to the subject and the topics covered are ones that have been developed over the years in the textile department at Huddersfield. This institution has had, until now, a long history of teaching part-time students on day-release from their employment in the local textile industry. Because of this the testing section developed close links with the industry and thus became aware of the problems and requirements in this area. Therefore the content of the courses which were taught was developed over the years by a succession of workers in this area. This book is then a distillation of this collective wisdom and hopefully a further development of it. In particular I would like to mention my former colleagues Carol Ramsden, Philip Townhill and Christine Wilkinson, all of whom could have written this book but declined the chore.

The book is aimed both at students intending to join the textile industry and also at personnel who are already employed there in the areas of testing and quality assurance. Because modern industry produces goods, be they garments, fabrics, yarns or fibres, to specifications, the emphasis throughout this book is on standard and reproducible tests. The reason for this is that in order to specify a property it is also necessary at the same time to specify the method of test. Many of the tests carried out on textile materials are intended to measure the same property but because of their different approach or the type of equipment used can give different results.

It is important when carrying out any tests to consult an up-to-date copy of the relevant standard. This is because the actual standard contains a wealth of detail which it is not possible to cover in a book of this nature and furthermore national and international standards are constantly being changed and updated.

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