1. Record Nr. UNINA9911006706303321 Autore Saville B P **Titolo** Physical Testing of Textiles Pubbl/distr/stampa Burlington,: Elsevier Science, 1999 **ISBN** 1-280-37208-7 9786610372089 1-84569-015-X 1-59124-730-6 Descrizione fisica 1 online resource (322 p.) Woodhead Publishing Series in Textiles Collana 677 Disciplina Soggetti Textile fabrics -- Testing Textile industry Yarn Textile fabrics - Testing Mechanical Engineering **Engineering & Applied Sciences Industrial & Management Engineering** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di contenuto Front Cover: Physical Testing of Textiles: Copyright Page: Table of Contents; Preface; Acknowledgements; Chapter 1. Introduction; 1.1 Reasons for textile testing; 1.2 Standardisation of testing; 1.3 Sampling; 1.4 Measurement; General reading; References; Chapter 2. Textiles and moisture; 2.1 Introduction; 2.2 Effect of moisture on physical properties; 2.3 Atmospheric moisture; 2.4 Regain and moisture content; 2.5 Correct invoice weight; 2.6 Control of testing room atmosphere; References; Chapter 3. Fibre dimensions; 3.1 Fibre fineness; 3.2 Fineness measurement; 3.3 Fibre length 3.4 Methods of measurement: direct methods3.5 Methods of measurement: tuft methods; 3.6 High-volume instruments; General

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## Sommario/riassunto

This book examines the physical testing of textiles in the form of fibre, yarn and fabric, the emphasis throughout eing on standard and reproducible tests. After an introductory explanation of sampling and measurement, the author explores the effects of moisture on textiles, then goes on to discuss fibre dimension, yarn tests for linear density, twist, evenness and hairiness, tensile strength, and dimensional stability and serviceability. Also covered are aspects of comfort and fabric handle, colour fastness and quality assurance. The book's comprehensive coverage of the physical properties of