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It then considers thermal properties and reaction to moisture. A further group of chapters then reviews tensile properties, thermo-mechanical responses, fibre breakage and fatigue. Finally, the book discusses dielectric properties, electrical resistance and static, optical properties and fibre friction.Written by one of the world’s leading authorities, the fourth edition of Physical properties of textile fibres consolidates its reputation as a standard work both for those working in the textile industry and those teaching and studying textile science.A standard reference on key aspects of fibre performanceAn essential read and reference for textile technologists, fibre scientists, textile engineers and those in academiaProvides substantial updated material on fibre structure and new test methods, data and theories regarding properties of textile fibresThose working in the textile industry and those teaching and studying textile scienceIntroduction to fibre structure; Testing and sampling; Fibre fineness and transverse dimensions; Fibre length; Fibre density; Thermal properties; Equilibrium absorption of water; Heats of sorption; Rate of absorption of moisture; The retention of liquid water; Swelling; Theories of moisture sorption; Tensile properties; The effects of variability; Elastic recovery; Rheology; Directional effects; Thermo-mechanical responses; Fibre breakage and fatigue; Theories of mechanical properties; Dielectric properties; Electrical resistance; Static electricity; Optical properties; Fibre friction.No. of pages: 796Language: EnglishCopyright: © Woodhead Publishing 2008Published: October 10, 2008Imprint: Woodhead PublishingHardcover ISBN: 9781845692209eBook ISBN: 9781845694425J. 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Readers with a background in chemistry and an interest in the principles of functional fibre development will also find it to be of value. The book explains the characteristics required for polymers to be fibre-forming, the general physical properties needed from textile fibres, and the chemistry of important natural and synthetic fibres. The book also deals with the essential chemistry of "high-performance" fibres that possess functionalities beyond those of materials traditionally used for apparel. Later chapters describe methods of fibre enhancement and fibre blending. Select all / Deselect allYou currently don’t have access to this book, however you can purchase separate chapters directly from the table of contents or buy the full version.Purchase the book

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