1. Record Nr. UNINA9911006814503321 Autore Atkinson Colin Titolo False twist textured yarns: principles, processing and applications // C. Atkinson Philadelphia, Pa., : Woodhead Pub. in association with Textile Institute, Pubbl/distr/stampa 2012 **ISBN** 1-62870-060-2 0-85709-559-5 Descrizione fisica 1 online resource (222 p.) Woodhead publishing series in textiles. . 2042-0803 : : no. 129 Collana 677 Disciplina 677.02862 Soggetti Textile fabrics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Cover; False twist textured yarns: Principles, processes and applications; Copyright; Contents; Woodhead Publishing Series in Textiles; Preface; 1 The development of textured yarns; 1.1 Artificial silk: an early history; 1.2 The arrival of melt spinning; 1.3 The melt spinning process; 1.4 Achieving desirable fabric properties through texturing; 1.5 References; 2 Basic principles of false twist texturing; 2.1 The concept of false twist texturing; 2.2 The false twist mechanism; 2.3 Twist application methods: 2.4 References: 3 Yarn texturing machine design 3.1 The evolution of yarn texturing machines 3.2 Yarn heating and residence time in the primary texturing zone; 3.3 Vapour phase heaters; 3.4 High-temperature (HT) heaters; 3.5 Intermediatetemperature heaters; 3.6 Comparison summary of heater types; 3.7 Yarn cooling in the texturing zone; 3.8 Secondary heaters; 3.9 Machine profiles; 3.10 References; 4 Yarn twist application methods; 4.1 Friction

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Sommario/riassunto

A false twist textured yarn is a continuous filament yarn that has been processed to introduce crimps, coils, loops and other fine distortions along the yarn's length. These distortions give synthetic yarns such as nylon, polyester and polypropylene improved properties such as stretch, bulk, improved thermal insulation and an appearance similar to natural fibres. This important book summarises the key principles, technologies and process issues in the manufacture of high-quality false twist textured yarns. After an introductory chapter on the development of textured yarns, the book revi