Record Nr. UNINA9910459222203321 Plasma technologies for textile and apparel // edited by S.K. Nema and **Titolo** P.B. Jhala Pubbl/distr/stampa New Delhi:,: Woodhead Publishing India Boca Raton, FL:,: CRC Press,, [2015] ©2015 0-429-08354-8 **ISBN** 93-80308-95-7 Descrizione fisica 1 online resource (382 p.) Collana Woodhead Publishing India in Textiles Disciplina 621.044 Soggetti Plasma engineering Textile industry Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di contenuto Front Cover; Contents; Preface; Foreword; Contributors; 1. Basics of plasma and its industrial applications in textiles; 2. Atmospheric pressure plasma processing of textiles at FCIPT; 3. Atmospheric pressure plasma polymerization of HMDSO on different textile fibres and their studies; 4. In-situ plasma reactions for hydrophobicfunctionalization of textiles; 5. In-situ plasma reactions for hydrophilicfunctionalization of textile substrates; 6. Plasma processing of textiles to enhancetheir dyeing and surface properties 7. Next to skin easy care woolens by plasma andother eco-friendly technologies8. Low pressure air plasma for processingof silk textiles; 9. RF plasma treatment of Muga silkand its characterization; 10. Cold plasma for dry processing, functionalization and finishing of textile materials; 11. Nanotitania synthesis and its integration intextiles using plasma technology; 12. Plasma textile technology status, technoeconomics, limitations and industrial usage potential