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A comprehensive guide to technological developments and scientific understanding, Thermal and Moisture Transport in Fibrous Materials begins with a summary of the structure, geometry, and stereology of fibrous materials. The fundamentals of wetting and its dynamics are also discussed. The book provides an analysis of thermal and liquid interactions in textiles and offers insights into the thermodynamic behavior of moisture as well as heat and moisture coupling. The book concludes with chapters on the human thermoregulatory system, interfacing between fibrous materials and the human body and innovative computer modeling simulations.