



THE CONFIGURATION OF TEXTILE FIBRES IN STAPLE YARNS

A. Primentas, C. Iype
School of Textile Industries, The University of Leeds

ABSTRACT

The observation of individual fibres in a mass of fibres becomes possible with the tracer fibre technique. For the microscopic examination of ring-spun yarns containing tracer fibres, the depth of focusing is used as a reference for the fibre location inside the body of the yarns. Three-dimensional configurations of the examined fibres in the yarns are generated by computer graphics. This method will assist researchers who are working in the field of yarn and fabric structural mechanics.

KEYWORDS: fibre migration, microscopy, tracer fibre technique