



Mechatronic Design in Textile Engineering (NATO Science Series E: (closed))

From Springer



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Mechatronic Design in Textile Engineering contains a selection of contributions to the NATO ASI which took place in April 1992, in Turkey. In addition to the introductory sections on the mechatronics concept and design methodology and the impact of advance in technology on the mechatronics concept; the importance of the mechatronic design in the textile industries is highlighted, together with many examples. These include:

- mechatronics in the design of textile machinery, such as 3-D braiding;
- weaving and LAN systems for weaving;
- yarn tension compensation;
- texturing;
- spinning: measurement automation and diagnosis, knowledge-based expert systems;
- automated garment manufacture and assembly; and
- apparel manufacture.

The book is unique in that it brings together many applications of mechatronics in textile machinery and system design. In that respect it will serve as a reference book for designers as well as for students of textile technology and engineering.

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