



Modelling, Simulation and Control of the Dyeing Process (Woodhead Publishing Series in Textiles)

R. Shamey, X. Zhao

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With increased environmental awareness and rising costs, manufacturers are investing in real time monitoring and control of dyeing to increase its efficiency and quality. This book reviews ways of automating the dyeing process as well as ways of understanding key processes in dyeing, including dye transport in fluid systems. This understanding is then used to create models to simulate the dyeing process which can then be used to develop appropriate measurement and control systems. Control of variables such as temperature, pH, conductivity and dye concentration can then be used to ensure a more consistent and cost-effective dyeing process.

- Reviews the dyeing process and dye house automation, and the factors that affect dyeing quality and common difficulties in the process.
- Explains the principles underlying the dyeing process and provides a thorough understanding of the mathematical models that can be used to approximate it.
- Discusses techniques for monitoring dyebaths and controlling the dyeing process.

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