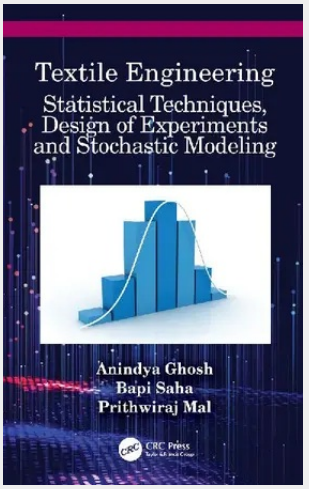
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Textile Engineering

Statistical Techniques, Design of Experiments and Stochastic Modeling

Focusing on the importance of the application of statistical techniques, this book covers the design of experiments and stochastic modeling in textile engineering. Textile Engineering: Statistical Techniques, Design of Experiments and Stochastic Modeling focuses on the analysis and interpretation of textile data for improving the quality of textile processes and products using various statistical techniques. FEATURES - Explores probability, random variables, probability distribution, estimation, significance test, ANOVA, acceptance sampling, control chart, regression and correlation, design of experiments and stochastic modeling pertaining to textiles - Presents step-by-step mathematical derivations - Includes MATLAB® codes for solving various numerical problems - Consists of case studies, practical examples and homework problems in each chapter This book is aimed at graduate students, researchers and professionals in textile engineering, textile clothing, textile management and industrial engineering. This book is equally useful for learners and practitioners in other scientific and technological domains.

Overall theme of the book is analysis and interpretation of the textile data for improving the quality of textile process and product using various statistical techniques. This volume covers statistical techniques, design of experiments and stochastic modeling in textile engineering supported by practical examples and end-of-chapter exercises.



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