



## Applied Design of Experiments and Taguchi Methods

By K. Krishnaiah, P. Shahabudeen



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This book explains the fundamentals of experimental design and provides essential DOE techniques for process improvement and discusses simple graphical methods for reducing the time taken to design and develop products. It deals with statistical model for a two factor experiments, three factor experiments, and analysis of 2k factorial, 2k—m fractional factorial design. It also explicates with the methodology of surface design, Taguchi quality loss function, orthogonal design, and objective functions in robust design. In addition, the book explains the application of orthogonal arrays, data analysis using response graph method and analysis of variance, methods for multi-level factor designs, factor analysis and genetic algorithm. This book is suitable for the undergraduate students of Industrial Engineering and postgraduate students of Mechatronics Engineering, Mechanical Engineering and Statistics.



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