



Design of Experiments for Engineers and Scientists

By Jiju Antony

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Design of Experiments for Engineers and Scientists By Jiju Antony

The tools and technique used in the Design of Experiments (DOE) have been proved successful in meeting the challenge of continuous improvement over the last 15 years. However, research has shown that applications of these techniques in small and medium-sized manufacturing companies are limited due to a lack of statistical knowledge required for their effective implementation. Although many books have been written in this subject, they are mainly by statisticians, for statisticians and not appropriate for engineers.

Design of Experiments for Engineers and Scientists overcomes the problem of statistics by taking a unique approach using graphical tools. The same outcomes and conclusions are reached as by those using statistical methods and readers will find the concepts in this book both familiar and easy to understand. The book treats Planning, Communication, Engineering, Teamwork and Statistical Skills in separate chapters and then combines these skills through the use of many industrial case studies. Design of Experiments forms part of the suite of tools used in Six Sigma.

Key features:

- * Provides essential DOE techniques for process improvement initiatives
- * Introduces simple graphical techniques as an alternative to advanced statistical methods – reducing time taken to design and develop prototypes, reducing time to reach the market
- * Case studies place DOE techniques in the context of different industry sectors
- * An excellent resource for the Six Sigma training program

This book will be useful to engineers and scientists from all disciplines tackling all kinds of manufacturing, product and process quality problems and will be an ideal resource for students of this topic.

Dr Jiju Anthony is Senior Teaching Fellow at the International Manufacturing Unit at Warwick University. He is also a trainer and consultant in DOE and has worked as such for a number of companies including Motorola, Vickers, Procter and Gamble, Nokia, Bosch and a large number of SMEs.

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Design of Experiments for Engineers and Scientists By Jiju Antony Bibliography

- Sales Rank: #1054711 in Books
- Brand: Brand: Elsevier
- Published on: 2003-11-07
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .40" w x 6.50" l, .73 pounds

- Binding: Paperback
- 152 pages



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Editorial Review

Review

"This is a book outlining a method of designing experiments highly suitable for those in the Manufacturing field for whom it is written...Jiju puts forward an excellent method, Design of Experiments (DOE), to show how improvements can be brought about. While the subject matter is not new...the exclusive focus he gives to manufacturing problems and the wider insights into human considerations if the theory is to be brought to successful practice are admirable. The book is well structured to prepare the reader, to explain to the reader and then confirm the reader with sets of exercises.

- Tribology International, Volume 37, Issue 9

From the Back Cover

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About the Author

Dr Jiju Antony is Professor of Quality Management and Deputy Director of the Institute of Operations management with the University of Strathclyde. He is also a trainer and consultant in DOE and has worked as such for a number of companies including Motorola, Vickers, Procter and Gamble, Nokia, Bosch and a large number of SMEs.

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