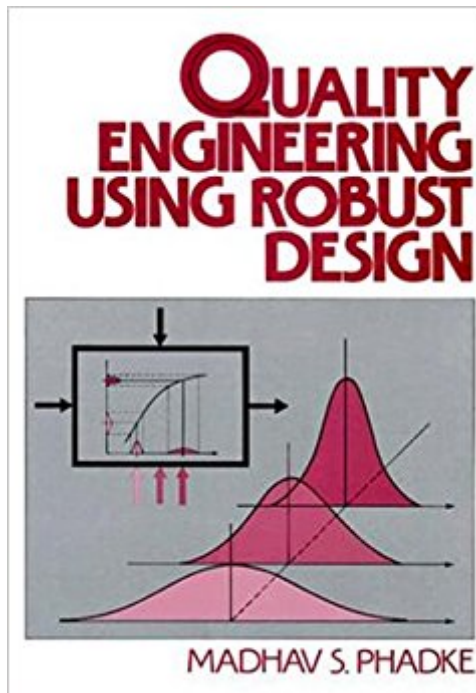




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Quality Engineering Using Robust Design



Synopsis

Phadke was trained in robust design techniques by Genichi Taguchi, the mastermind behind Japanese quality manufacturing technologies and the father of Japanese quality control. Taguchi's approach is currently under consideration to be adopted as a student protocol with the US government. The foreword is written by Taguchi. This book offers a complete blueprint for structuring projects to achieve rapid completion with high engineering productivity during the research and development phase to ensure that high quality products can be made quickly and at the lowest possible cost. Some topics covered are: orthogonal arrays, how to construct orthogonal arrays, computer-aided robust design techniques, dynamic systems design methods, and more.

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Customer Reviews

This book shows how to design high-quality products and processes at low cost -- using a unique approach that makes product/process engineering much more efficient and systematic.

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development phase to ensure that high quality products can be made quickly and at the lowest possible cost. Some topics covered are: orthogonal arrays, how to construct orthogonal arrays, computer-aided robust design techniques, dynamic systems design methods, and more.

Dr. Phadke has created a great book as an introduction for Robust Design. I will be using this for a Systems Engineering course in New Product Development at the 400/500 level.

It's the right book what I want. It's a used one. But pretty new. Just some highlights in it. I'm satisfied with it.

Its a good read, but its a shame if they are still using this book in school, so much more about quality is discovered every year. Great for basics though.

Phadke gives a versatily, easy to read introduction into the on-target philosophy and the Quality Loss Function. Many examples are taken from real case studies (e.g. from Xerox and ITT), covering mechanics, electronics and computer systems. These are good to inspire your own improvement projects. Unfortunately, the most versatile characteristic is not treated (dynamic characteristic).

This is one of the earliest books on the subject. It gives an attractive treatment of the concepts and techniques of Robust Design, but is by now dated in view of the ideas that have been advanced and discussed among the professionals in the past decade. I look forward to a new edition of the book.

Dr. Phadke has written the most clear book on the Robust Design method. I was able to follow the book with medium statistical and engineering knowledge and gained valueable knowledge. This is a must read for all engineering managers!

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