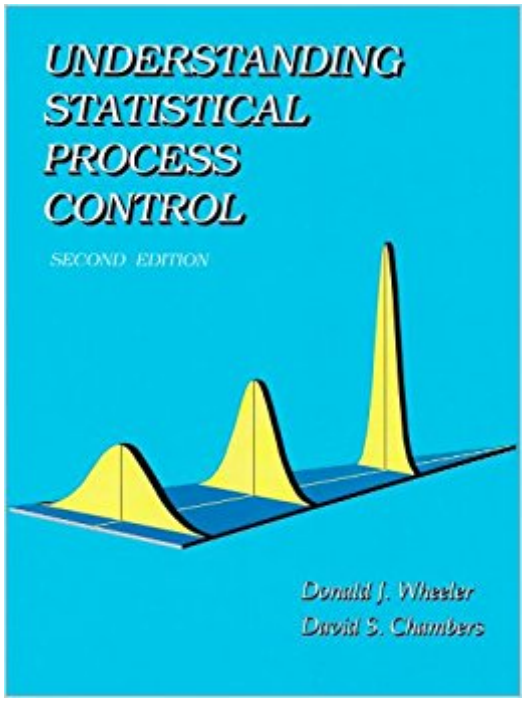
Understanding Statistical Process Control



Synopsis

This internationally acclaimed textbook is widely used for teaching basic SPC, Data Analysis, and Continual Improvement Techniques to those who work in manufacturing and process industries. Over 75 years of practical experience were distilled in this book which combines instruction with real-world case studies. Written in ordinary language, the book is easy to read and appropriate for self study. W. Edwards Deming wrote in his foreword, It is fitting to add my deep appreciation for the mathematical achievements of Dr. Wheeler. His understanding of theory, and its application, is guided by mathematical knowledge. Some of he unique material in this landmark text includes: how charts signal inadequate measurement discrimination; how to use count data effectively; what happens if the measurements are not normally distributed; the right and wrong ways to assess capability; how to use process behavior charts with chemical batches; the right ways to compute limits for process behavior charts; principles of subgrouping; World-Class Quality and the Taguchi Loss Function.

Book Information

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Customer Reviews

This book starts with a extremely well explained chapter on the philosophy of control charts. This is really the most important part of the book. Other topics about rational subgrouping and myths are also very well covered. The book deals with interesting examples which should be a little bit more up-to-date. Presenting control charts on mm-paper is outdated in this computer era.

Very useable, greats examples and provides the information in new ways that help expand the readers horizon on statistics. I recommend it as its user friendly and start with the basic and progress into more complex problems.

This book is for all practicing professional on SPC and an eye-opener for the novice. It highlights many important topics specially the four state of a process model and shows how the process behaviour chart (a.k.a control chart)can help in reaching the ideal state. The correct and wrong way of doing the calculation for the establishment of the control limits is also discussed and clarified and much more . This is a must to have for all who wants to go through their personal path to SPC . Buy this Book !

SPC is a widely MISUSED and OVERused term in the manufacturing world. It is amazing how many myths and misunderstandings exist and are accepted as rules of thumb. Understanding Statistical Process Control explains the foundations of Shewhart's control charts in depth, tying up its usage in real world. This is the simplest, most accurate guide for learning and applying SPC. Wheeler carefully separates the facts from fiction. His examples and excercises give reader a chance to see how control charts should be used in real world.Conclusion: BUY IT

Best SPC book I've read. Stresses the importance of control charts and clearly explains the statistical theory behind them. This text explains various process metrics and how they should be used. Or more importantly, how they are commonly misused. If you desire a solid understanding of SPC fundamentals, I highly recommend this book.

This is an excellent cookbook for participants in SPC. It helps you to avoid of miss-using the SPC.For me, it helps me to prepare training material on SPC easier.Unfortunately, the theory aspect in this book is not enough for expert usage.

I purchased this book believing that it would give me insight to SPC and more specifically control charts, and as a supplement to text books I currently own by Montgomery. I can say that this book is OK for beginners who have not had any exposure at all to college level SPC or Control Chart classes or books. However, if you already own any college level text book regarding SPC, Quality Control, or Control Charts, this book will be too elementary for you.

The book is well written, the examples illustrate the concepts in a nice way. Readers new to Statistics ought to read about basic concepts of Statistics from other texts that deal with the subject on a simpler level, then read this book.Certain topics are not included although they are relevant in today's business context - for instance, Lean, and Mass Customization have resulted in many processes being changed around to small lot sizes. This requires the use of Short Run SPC, and it is covered in a separate book.I keep the book handy as a ready reference, and also recommend it on a regular basis.