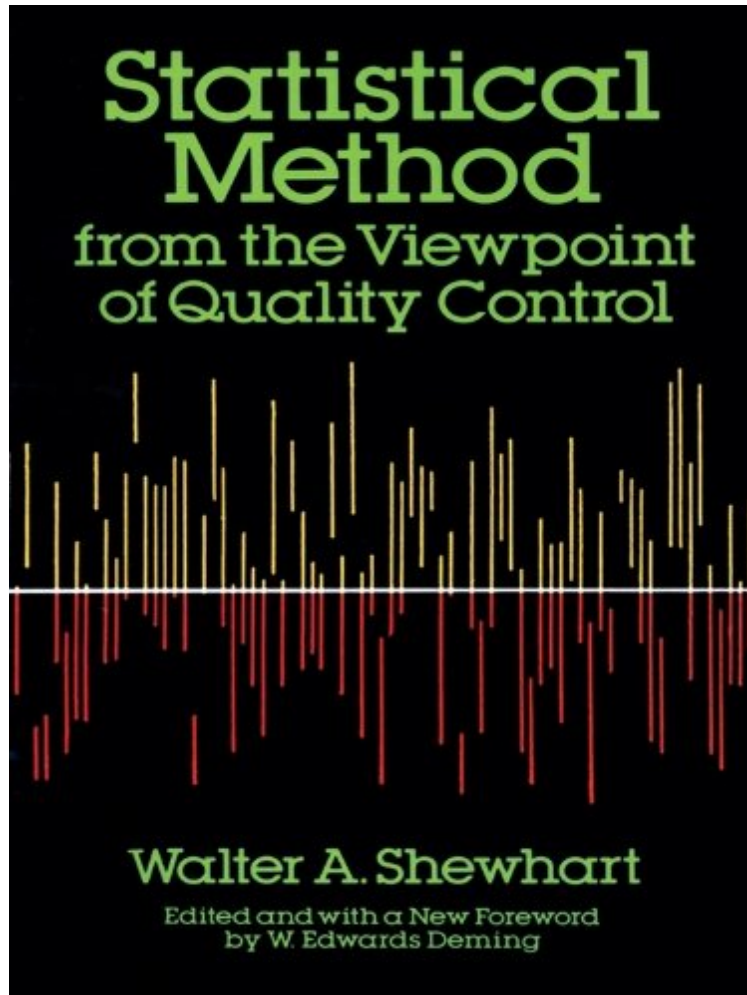


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Statistical Method from the Viewpoint of Quality Control (Dover Books on Mathematics)

Walter A. Shewhart

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Walter A. Shewhart : Statistical Method from the Viewpoint of Quality Control (Dover Books on Mathematics) before purchasing it in order to gage whether or not it would be worth my time, and all praised Statistical Method from the Viewpoint of Quality Control (Dover Books on Mathematics):

2 of 2 people found the following review helpful. 2nd of classical SPC tomes from ShewhartBy TrotlineAlong with "Economic Control of Quality of Manufactured Product" Shewhart et.al. laid the groundwork for Statistical Process Control (SPC). Neither book is an easy read, even for the mathematically proficient, but worthy of chewing on until you get what Dr Shewhart is describing. Having read it in undergraduate studies, it was really a blessing to find it available through . Highly recommended for any engineer in manufacturing.0 of 0 people found the following review helpful. Not for the faint hearted but for Real Thinkers who are interested in Epistemology of ScienceBy Lepine

K. This is not the common probabilistic book. In fact it's more about epistemology of science than about mathematics. Shewhart was not just a great academic statistician he also worked as engineer. Though he was the President of the American Statistical Association, his viewpoint was radically different from most of his peers. His viewpoint is about operationality in the real world not in the world of mathematics. He criticizes the way scientists use statistics to prove things without really being rigorous. For example for the speed of light which is now known not to be as absolutely constant as one asserted in the past, and even the way error calculus or Normal Law has been taught to generations and generations of Engineers. This book is not for the faint hearted though but for real thinkers. 1 of 1 people found the following review helpful. A classic and must-read for anyone interested in process control ...By Matt Jans A classic and must-read for anyone interested in process control (or even variability in repeated processes...no necessarily manufacturing per se).

The application of statistical methods in mass production make possible the most efficient use of raw materials and manufacturing processes, economical production, and the highest standards of quality for manufactured goods. In this classic volume, based on a series of ground-breaking lectures given to the Graduate School of the Department of Agriculture in 1938, Dr. Shewhart illuminated the fundamental principles and techniques basic to the efficient use of statistical method in attaining statistical control, establishing tolerance limits, presenting data, and specifying accuracy and precision. In the first chapter, devoted to statistical control, the author broadly defines the three steps in quality control: specification, production, and inspection; then outlines the historical background of quality control. This is followed by a rigorous discussion of the physical and mathematical states of statistical control, statistical control as an operation, the significance of statistical control and the future of statistics in mass production. Chapter II offers a thought-provoking treatment of the problem of establishing limits of variability, including the meaning of tolerance limits, establishing tolerance limits in the simplest cases and in practical cases, and standard methods of measuring. Chapter III explores the presentation of measurements of physical properties and constants. Among the topics considered are measurements presented as original data, characteristics of original data, summarizing original data (both by symmetric functions and by Tchebycheff's theorem), measurement presented as meaningful predictions, and measurement presented as knowledge. Finally, Dr. Shewhart deals with the problem of specifying accuracy and precision; the meaning of accuracy and precision, operational meaning, verifiable procedures, minimum quantity of evidence needed for forming a judgment and more. Now available for the first time in this inexpensive paperbound format, this highly respected study will be welcomed by mathematics students, engineers, researchers in industry and agriculture; anyone in need of a lucid, well-written explanation of how to regulate variable and maintain control over statistics in order to achieve quality control over manufactured products, crops, and data.

About the Author JOYCE NILSSON ORSINI, PhD, is an associate professor of management systems at Fordham University, the director of Fordham's Deming Scholars MBA program, and president of The W. Edwards Deming Institute.