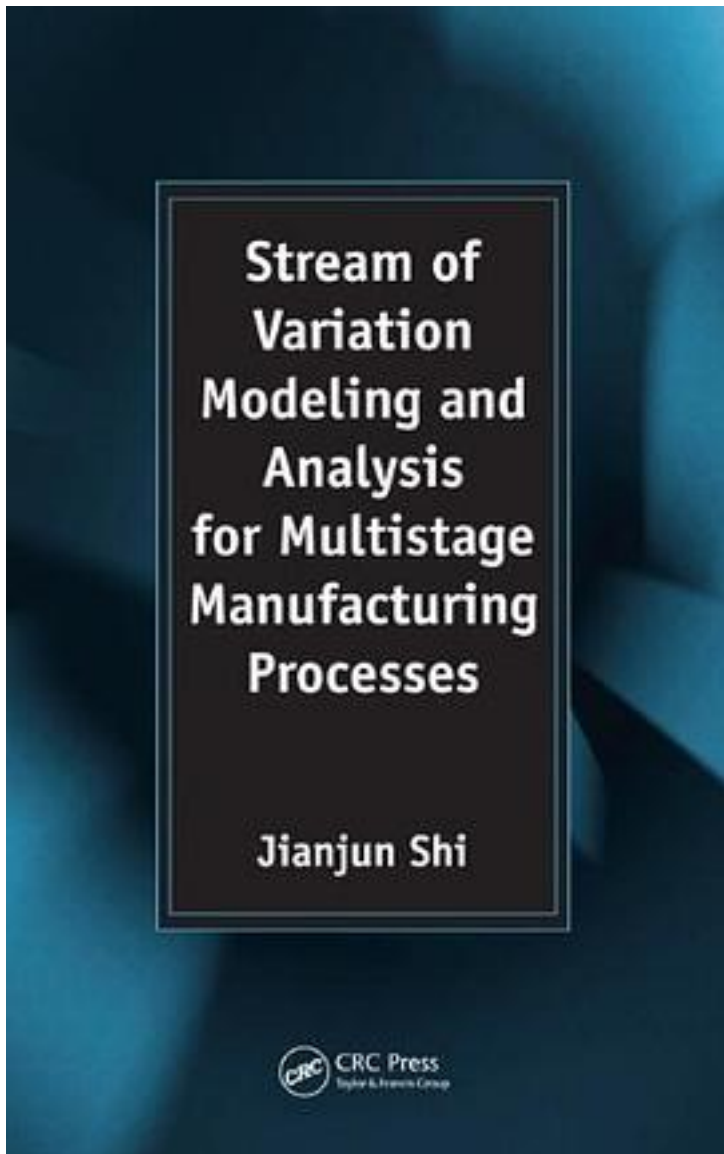


Stream of Variation Modeling and Analysis for Multistage Manufacturing Processes



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Variability arises in Multistage Manufacturing Processes (MMPs) from a variety of sources. Variation reduction demands data fusion from product/process design, manufacturing process data, and quality measurement. Statistical Process Control (SPC), with a focus on quality data alone, only tells half of the story and is a passive method, taking corrective action only after variations occur. Learn how the Stream of Variation (SoV) methodology helps reduce or even eliminate variations throughout the entire MMP in Jianjun Shi's "Stream of Variation Modeling and Analysis for Multistage Manufacturing Processes". The unified methodology outlined in this book addresses all aspects of variation reduction in a MMP, which consists of state space modeling, design analysis and synthesis, engineering-driven statistical methods for process monitoring and root-cause diagnosis, and quick failure recovery and defect prevention. Coverage falls into five sections, beginning with a review of matrix theory and multivariate statistics followed by variation propagation modeling with applications in assembly and machining processes. The third section focuses on diagnosing the sources of variation while the fourth section explains design methods to reduce variability. The final section assembles advanced SoV-related topics and the integration of quality and reliability. Introducing a powerful and industry-proven method, this book fuses statistical knowledge with the engineering knowledge of product quality and unifies the design of processes and products to achieve more predictable and reliable manufacturing processes.

作者介绍:

目录:

[Stream of Variation Modeling and Analysis for Multistage Manufacturing Processes_下载链接1](#)

标签

质量控制, 误差传递, 数据融合

质量

统计

毕业

english

评论

非常经典的质量工程中误差传递理论的奠基之作，对于多工序制造过程的质量控制误差传递理论有非常理论的建模过程和非常工程的验证过程。作者Jianjun Shi是Georgia Tech的首席教授，该研究领域内的大牛！

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书评

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