



Statistics for Innovation: Statistical Design of "Continuous" Product Innovation

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4. 1. 1 Importance of Computer Simulation The importance of experimenting for quality improvement and innovation of products and processes is now very well known: "experimenting" means to implement significant and intentional changes with the aim of obtaining useful information. In particular, the majority of industrial experiments have two goals: • To quantify the dependence of one or more observable response variables on a group of input factors in the design or the manufacturing of a product, in order to forecast the behavior of the system in a reliable way. • To identify the level settings for the inputs (design parameters) that are capable of optimizing the response. The set of rules that govern experiments for technological improvement in a physical set-up are now comprehensively labeled "DoE." In recent years, the use of experimentation in engineering design has received renewed momentum through the utilization of computer experiments (see Sacks et al. 1989, Santner et al. 2003), which has been steadily growing in the last two decades. These experiments are run on a computer code implementing a simulation model of a physical system of interest. This enables us to explore the complex relationships between input and output variables. The main advantage of this is that the system becomes more "observable," since computer runs are generally easier and cheaper than measurements taken in a physical set-up, and the exploration can be carried out more thoroughly. This is particularly attractive in industrial design applications where the goal is system optimization. 4. 1.

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