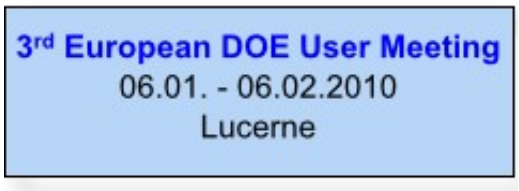
Talk at the 3rd European DOE User Meeting in Lucerne "Industrial strip-plot designs: design and analysis"

(06.02.2010 – 9:00 by Peter Goos, (Uni of Antwerp)

Abstract

The cost of experimentation can often be reduced by forgoing complete randomization. A well-known design with restricted randomization is a split-plot design, which is commonly used in industry when some experimental factors are harder to change than others or when a two-stage production process is studied. Split-plot designs are also often used in robust product design to develop products that are insensitive to environmental or noise factors. Another, lesser known, type of experimental design plan that can be used in such situations is the strip-plot experimental design. Strip-plot designs are economically attractive in situations where the factors are hard to change and the process under investigation consists of two distinct stages, and where it is possible to apply the second stage to groups of semi-finished products from the first stage. They have a correlation structure similar to row-column designs and can be seen as special cases of split-lot designs. In this talk, I show how optimal design of experiments allows for the creation of a broad range of strip-plot designs.



June 1st to June 2nd 2010 in Lucern / Switzerland

The registration fee is 420,- Euro excl. of VAT

All lectures are given in English

For more information please have a look at the conference page (english / german)

http://www.statcon.de/dxusermeeting_63_en.html