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Optimal design for nonlinear regression models

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Abstract

The lectures give an introduction to the basic concepts of optimum design theory. It is demonstrated that a good design may save more than 50% of the observations used in the experiment. Some particular problems arising in nonlinear regression models are explained and advantages and disadvantages of some solutions proposed in the literature are discussed. Several examples are given to illustrate the theory. In the second part of the lectures some recent developments in this area are explained.