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Given the total number of treatment runs for an experiment and a specified model, the computer algorithm chooses the optimal set of design runs from a candidate set of possible design treatment runs. This candidate set of treatment runs usually consists of all possible combinations of various factor levels that one wishes to use in the experiment.

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5.5.2.1. D-Optimal designs

Select an optimal design Select design points from a candidate set of points to achieve an optimal design. Select Optimal Design is often used to reduce the number of experimental runs when the original design contains more points than are feasible due to time or financial constraints.

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His main research topic is the optimal design of experiments. He has published a book as well as several methodological articles on the design and analysis of blocked and split-plot experiments. Other interests of his in this area include discrete choice experiments, model-robust designs, experimental design for non-linear models and for multiresponse data, and Taguchi experiments.

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