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Overall, the iterative algorithm outputs an experimental design which may result in significantly lower standard errors for all parameter estimates as compared to the naive experimental design regardless of the optimal design criteria choice (Figure 3 (left), zero iterations = naive experimental design). Between optimal design criterion, the SE-optimal design resulted in the lowest sum of NSE² s, followed by D-optimal and E-optimal designs, although we note that there was variability in ...

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Hence, if determining the optimal experimental design is the only goal, the optimal or closed optimal experimental design can be determined without knowledge of P 2. Table 5 .LCI SNR of extreme cases and optimal experimental design at C U = 180 when C P , C O , C M = . 10 , 6 , 1 .

Determination of optimal experimental design for ANOVA ...

In the design of experiments, optimal designs (or optimum designs) are a class of experimental designs that are optimal with respect to some statistical criterion. The creation of this field of statistics has been credited to Danish statistician Kirstine Smith. In the design of experiments for estimating statistical models, optimal designs allow parameters to be estimated without bias and with minimum variance. A non-optimal design requires a greater number of experimental runs to estimate the p

Optimal design - Wikipedia

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Optimal Bayesian experimental design for subsurface flow ...

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X. Huan and Y.M. Marzouk, Simulation-based optimal Bayesian experimental design for nonlinear systems, Journal of Computational Physics, 232:288-317, 2013. X. Huan, Y. Marzouk, Gradient-based stochastic optimization methods in Bayesian experimental design, Intl. Journal for Uncertainty Quanti cation, 4(6), 2014.

Scalable algorithms for optimal experimental design for ...

In this manuscript we show a new OED formulation, which aims at the improvement of the optimal process design cost and is called hereafter optimal experimental design for optimal process design (OED-OPD). The OED-OPD formulation is a min-max-min (MMM) optimization problem involving nonconvex nonlinear functions.

Optimal experimental design for optimal process design: A ...

In this thesis, our main interest is in exact optimal design of experiments for nonlinear multifactor models. In order to search for optimal designs, we can use the conventional point or coordinate...

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