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For such situations, experimental design, when it is properly used, provides a set of consistent procedures and principles for collecting data so that an estimate of relationships between one set of variables, called explanatory variables, and another, called dependent variables, can be performed (even if there are experimental errors). For ...

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Optimal Experiment Design, Multimodality. Cite this entry as:
(2013) Robust Experimental Design. In: Dubitzky W.,
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Robust design is provided by using the axiomatic method in this way. Reliability as the design constraint of PT components is defined and modeled in a specific way suitable for this purpose and application. Also, the model of gear vibrations and gear units noise generation is presented in a new way suitable for applying as the design constraint.

Experimental research for robust design of power ...

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adventure as without difficulty as experience nearly lesson,
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This paper addresses the design and experimental validation of a linear robust static output feedback controller for a 150 mm span fixed wing micro air vehicle (MAV). Severe coupling between longitudinal and lateral dynamics of the MAV lead to the design of a multivariable controller for the combined dynamics. The control design problem is posed in the framework of static output feedback (SOF ...

Design and Experimental Validation of a Robust ... - Springer

Sepecial Supplement on Robust and Reliability-based Design (2006), Journal of Mechanical Design, Transactions of ASME, Vol.

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128, No. 4. Google Scholar Shiau GH (1990) A Study on the Sintering Properties of Iron Ores Using the Taguchi's Parameter Design.

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In robust statistics, robust alternatives to the nonrobust least squares estimator have been developed, while in experimental design, designs for the efficient use of the least square estimator have been developed.

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Abstract. A control system is robust if it remains stable and achieves certain performance criteria in the presence of possible uncertainties as discussed in Chap. 2. The robust design entails to find a controller, for a given system, such that the closed-loop system is robust. The $\{\mathcal{H}_\infty\}$ optimization approach and its related approaches, being developed in the last

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two decades ...

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Experimental algorithmics, as its name indicates, combines algorithmic work and experimentation: algorithms are not just designed, but also implemented and tested on a variety of instances. Perhaps the most important lesson in this process is that designing an algorithm is but the first step in the process of developing robust and efficient ...

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Therefore, we propose an optimal design approach that is robust to potential model discrepancies. We show that our designs are better than the commonly used physical experimental designs that do not make use of the information contained in the computer model and other nonlinear optimal designs that ignore potential model discrepancies.

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A six-sigma robust optimization is applied to obtain both reliable and robust MDF products. Finally a numerical simulation with one experimental result of a given target shape shows that the wrinkling and dimpling defect is controlled using the obtained optimal process parameter setup.

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This textbook takes a strategic approach to the broad-reaching subject of experimental design by identifying the objectives behind an experiment and teaching practical considerations that govern design and implementation, concepts that serve as the basis for the analytical techniques covered.

Design and Analysis of Experiments | Angela Dean | Springer

Abstract. In this chapter the design of model based robust digital controllers is discussed. The design of digital PID controllers is first presented, emphasizing the general structure of digital controllers (three branched structure known as RST), the special features of the digital approach and the limitations of the digital PID.

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Experimental simulation setups are also included, which cover nano-regime challenges such as process variation, leakage and NBTI for SRAM design and analysis. Emphasis is placed throughout the book on the various trade-offs for achieving a best SRAM bitcell design. Provides a complete and concise introduction to SRAM bitcell design and analysis;

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