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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).

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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 two decades ...

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1.2. Taguchi experimental design The experimental design is widely used to optimize process parameter values in order to improve the quality properties of a product or a process. Full Factorial and One-Factor-at-the-time (OFTA) experiments are design methods that can possibly be used but requires a large

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Abstract. In this chapter, we provide a short overview of a number of results of  $\mathcal{H}_2$  and  $\mathcal{H}_\infty$  theories with an eye to using them for control system design. We discuss various methods of robust feedback control schemes and demonstrate their applications to typical practical systems.

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