

ID1

Introduction



1.6 IDENTIFIABILITY

Once a class of models and a penalty function for the model behavior have been selected, identification reduces for any set of available data, to an optimization problem whose solution consists in selecting the model associated to the minimal value of the penalty function. The problem is well defined if and only if the range of the penalty function contains a single absolute minimum; in this case the considered process is identifiable. Identifiability derives from the class of models that has been selected, from the penalty function and from the data, not from the system to be identified.

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