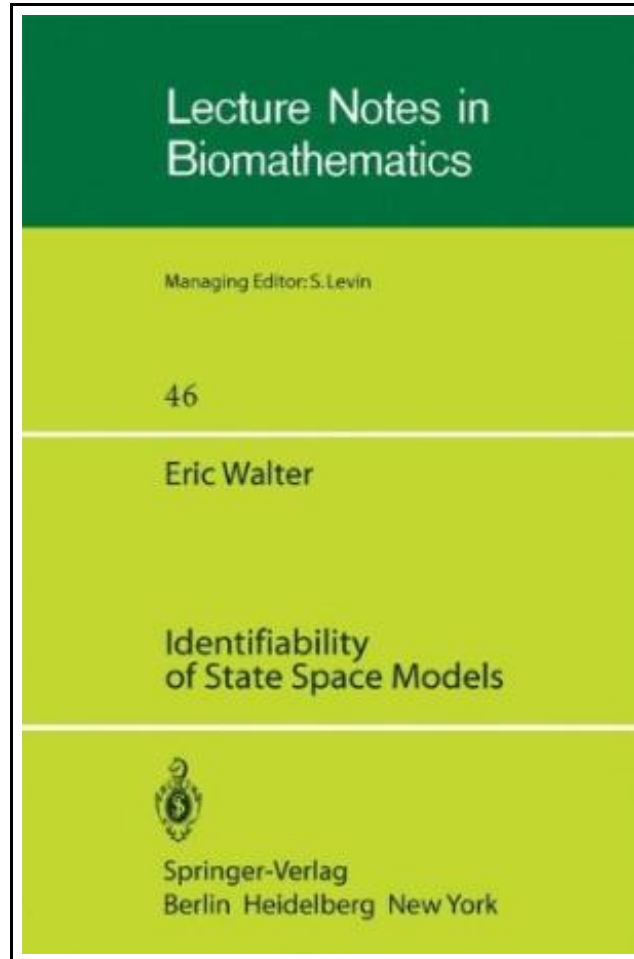


Identifiability of State Space Models



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Book Condition: New. Publisher/Verlag: Springer, Berlin | With Applications to Transformation Systems | It is the objective of Science to formalize the relationships between observed quantities. The motivations of such a modelling procedure are varied, but can roughly be collected around two poles. If one is concerned with process control, one wants to find a model which will be able to predict the process behavior, taking into account the applied inputs. The model will then be evaluated on its ability to mimic the observed input-output behavior under conditions; the variability of the process. 1. Transformation Systems.- 1.1 Introduction.- 1.2 Formalism.- 1.3 An example: nonlinear chemical kinetics.- 1.4 Specific problems of transformation system modelling.- 1.5 Conclusion.- 2. Structural Properties and Main Approaches to Checking Them.- 2.1 Introduction.- 2.2 Definitions.- 2.2.1 Structural properties and genericity.- 2.2.2 Connectability.- 2.2.3 Structural observability and structural controllability.- 2.2.4 Structural identifiability.- 2.2.5 Relations between these notions.- 2.3 Practical methods for checking structural observability and structural controllability of linear models.- 2.3.1 All nonzero entries are free.- 2.3.1.1 Graph theoretic approach.- 2.3.1.2 Algebraic approach.- 2.3.1.3 Conclusion.- 2.3.2 Nonzero entries are dependent.- 2.4 Main approaches to structural identifiability.- 2.4.1 Identifiable canonical representations.- 2.4.2 Global optimization.- 2.4.3 Berman and Schoonfeld's approach.- 2.4.4 Transfer function approach.- 2.4.5 Minimal representation approach.- 2.4.6 Local approaches.- 2.4.7 Power series approach.- 2.4.8 Identifiability of large-scale linear models.- 2.5 Conclusion.- 3. Local Identifiability.- 3.1 Introduction.- 3.2 Methods.- 3.2.1 Use of the implicit function theorem.- 3.2.2 Local stability of identification algorithms.- 3.2.2.1 Newton and Gauss-Newton algorithms.- 3.2.2.2 Gauss-Seidel algorithm.- 3.2.2.3 Quasilinearization algorithm.- 3.2.3 Observability of the extended state.- 3.2.4 Information matrix.- 3.3 Linear models.- 3.4 Computer aided design of models.- 3.5 Implementation for linear transformation systems.- 3.5.1 Method A.- 3.5.2 Structural nature of the result obtained.- 3.5.3 Method B.- 3.5.4 Examples.- 3.6 Conclusion.- 4. Global Identifiability of Linear...



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