

ID2

Equation error Identification



QUESTIONS

- Q.2.1** – Why exact models like (2.1.1) can not be used in identifying real processes?
- Q.2.2** – Is the structure of error terms in equation error models compatible with the use of these models to describe nonlinear and/or time–dependent processes?
- Q.2.3** – List the processes used to describe error terms in equation error models.
- Q.2.4** – Why equation error models are always purely dynamic? Is it possible to define non purely dynamic equation error models?
- Q.2.5** – What is the difference between “backward” and “forward” models?
- Q.2.6** – Give a definition of the identification problem.
- Q.2.7** – Does the identification problem admit always a single solution? Explain the reasons of your reply.
- Q.2.8** – What are the most common uses of equation error models obtained by means of identification techniques?
- Q.2.9** – Describe the essential difference between minimally parameterized MISO and MIMO models.
- Q.2.10** – Describe the limits of generic equation error multivariable models in identification.

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