

# ID11

## Bibliographic notes



### 11.1 IDENTIFICATION LITERATURE

The literature concerning system modeling and identification is really extensive. The evolution of models in science and engineering is discussed by Cobelli, Lepschy and Milo (1975), while some philosophical aspects of modeling are analyzed by Popper (1934, 1963) and Willems (1986).

Physical modeling is treated, among others, by Wellstead (1979), McClamroch (1980), Nicholson (1980), Burghes, Huntley and McDonald (1982) and Ljung and Glad (1994). The application of modeling and identification techniques in specific areas is described by Beck and van Straten (1983), Marani (1988), Young (1993) (environmental and ecological systems), Mendel (1983) (geoscience), Malinvaud (1980) (econometrics), Godfrey (1983) (biology), Juang (1994) (space structures).

A classical survey on system identification is due to Åström and Eykhoff (1971). Well-known books, with a wide coverage of topics, are due to Box and Jenkins (1970), Eykhoff (1974), Goodwin and Payne (1977), Kashyap and Rao (1976), Davis and Vinter (1985), Norton (1986), Ljung (1987) and Söderström and Stoica (1987).

The theory of stochastic systems is treated by Caines (1988) and by Hannan and Deistler (1988); the modeling of time-series by Hannan (1970), Anderson (1971) and Brillinger (1981).

Books dedicated to specific areas of identification are due to Ljung and Söderström (1983) and Young (1984) (recursive identification), Söderström and Stoica (1983) (instrumental variable method), Kalman (1993). Other methods can be found in Isermann (1987), Hsia (1977) and Johansson (1993).

Collections of articles dedicated to specific and advanced arguments have been edited by Mehra and Lainiotis (1976), Eykhoff (1981), Hannan, Krishnaiah and Rao (1985), Leondes (1987), Byrnes and Lindquist (1986) and Haagen, Bartholomew and Deistler (1993). A special issue of the *IEEE Transactions on Automatic Control* dedicated to identification has been edited by Kailath, Mehra and Mayne (1974); special issues of *Automatica* on identification have been edited by Isermann (1981) and by

Eykhoff and Parks (1990).

Another copious source of papers is given by the proceedings of the Symposia on Identification and System Parameter Estimation organized by the International Federation of Automatic Control (IFAC), held in Prague (1967, 1970), the Hague (1973), Tbilisi (1976), Darmstadt (1979), Washington D.C. (1982), York (1985), Beijing (1988), Budapest (1991), Copenhagen (1994) and Fukuoka (1997).

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