



Modelling and Simulation of Integrated Systems in Engineering: Issues of Methodology, Quality, Testing and Application

D J Murray-Smith

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This book places particular emphasis on issues of model quality and ideas of model testing and validation. Mathematical and computer-based models provide a foundation for explaining complex behaviour, decision-making, engineering design and for real-time simulators for research and training. Many engineering design techniques depend on suitable models, assessment of the adequacy of a given model for an intended application is therefore critically important. Generic model structures and dependable libraries of sub-models that can be applied repeatedly are increasingly important. Applications are drawn from the fields of mechanical, aeronautical and control engineering, and involve non-linear lumped-parameter models described by ordinary differential equations.

- Focuses on issues of model quality and the suitability of a given model for a specific application
- Multidisciplinary problems within engineering feature strongly in the applications
- The development and testing of nonlinear dynamic models is given very strong emphasis

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