



# Metamodelling: Bond Graphs and Dynamic Systems

*Peter Gawthrop, Lorcan Smith*

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With the increasing complexity of processes to be analyzed, the modern control engineer often needs to develop a model of the system to be controlled. However, in many cases, there is limited time for detailed system analysis, and the engineer may not be an expert in that particular domain. This work takes an engineering approach to bond graph modelling of dynamic systems, and provides an in-depth study of causality in the context of physical system modelling.

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