

An Introduction to System-theoretic Methods for Model Reduction - Part III - Preserving System Structure.

Christopher Beattie, Virginia Tech

Following on to previous tutorial presentations that have described the objectives and an assortment of methodologies for model reduction, I will focus on the role of structure in model reduction and discuss projection methods that are both simple and capable of providing high fidelity models that retain special model structure such as parametric dependence, second-order structure, passivity/dissipativity, and internal process/propagation delays.