

Mathematical Modeling of Physical Systems

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Across and Through Variables
Dymola offers two types of variables, the across variables and the through variables.
In a Dymola node, across variables are set equal across all connections to the node, whereas through variables add up to zero.
Consequently, if we equate across variables with efforts, and through variables with flows, Dymola nodes correspond exactly to the 0-junctions of our bond graphs.



















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The ThreePortZero partial model drags the three bond connectors into the diagram window, and packs the individual bond variables into two vectors.	Intercenter Linear And Annual State
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