Basic Bond Graph Notation

—	power bond	energetic interaction between (sub)systems	e.g. A — B
S_e —	effort source	boundary condition	inpedendent variable
S_f —	flow source	boundary condition	inpedendent variable
R —	(generalized) dissipator	irreversible energy removal	
C —	(generalized) capacitor	(generalized) potential energy storage	
I —	(generalized) inertia	(generalized) kinetic energy storage	
— 0 — |	zero junction	(generalized) continuity equation	
— 1 — |	one junction	(generalized) compatibility equation	

Fundamental quantities and relations

P   power

e   effort

f   flow

$\mathbf{P} = e \cdot f$

E   energy

$\mathbf{E} = \int e \cdot dq \ = \int f \cdot dp$

p   (generalized) momentum

q   (generalized) displacement