

Table 2.3 Analogous Characteristics for Several Physical Systems

System	Input	Output	Constant Parameters		
Electrical	Voltage	Current	Inductance	Resistance	Capacitance
Mechanical (translational)	Force	Velocity	Mass	Damping	Compliance
Mechanical (rotational)	Torque	Angular velocity	Moment of inertia	Angular damping	Angular compliance
Acoustical	Pressure	Particle velocity	Inertance (acoustical mass)	Acoustical damping	Acoustical capacitance
Thermal	Temperature	Heat flow	—	Thermal resistance	Thermal capacitance
Magnetic	Magneto- motive force	Flux	—	Reluctance	—