Central Theme: If a number of nonlinear, time-varying (passive, non-passive, active, single- and multi-port) elements (or building blocks) are available (i.e. their I/O relationships are known), then we can form a proper interconnection of selected type of elements to form circuits, and obtain dynamic equations that have the desired properties (globally, exponentially stable equilibrium point, for example). To design any system, we can then force the dynamics of that system to correspond to the dynamics of a properly connected circuit (a process similar to reverse engineering). The concept is simple, but powerful enough to be applied to a number of complex areas as shown in the figure.