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Overview. The concept of a dynamical system has its origins in Newtonian mechanics.There, as in other natural sciences and engineering disciplines, the evolution rule of dynamical systems is an implicit relation that gives the state of the system for only a short time into the future.

Dynamical system - Wikipedia
System identification is a method of identifying or measuring the mathematical model of a system from measurements of the system inputs and outputs. The applications of system identification include any system where the inputs and outputs can be measured and include industrial processes, control systems, economic data, biology and the life sciences, medicine, social systems and many more.

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American Institute of Mathematical Sciences
Betty K. Tuller, National Science Foundation, Social Behavioral and Economic Sciences Department, Department Member. Studies Cognitive Science.

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Description of the non-equilibrium effects in reactive gas mixtures constitutes a grand challenge in physical-chemical gas-dynamics. Such processes are of great interest for the fields such as plasma physics, aerospace engineering, astrophysics, chemical engineering, etc.

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