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In real life, all control systems are non-linear systems (linear control systems only exist in theory). The describing function is an approximate procedure for analyzing certain nonlinear control problems. Examples of Non-linear System A well-known example of a non-linear system is a magnetization curve or no load curve of a DC machine.

**Types of Control Systems | Linear and Non Linear Control ...**  
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**Numerical Methods for Linear Control Systems | ScienceDirect**  
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**EE 3413: Analysis and Design of Control Systems - Ahmad F. Taha**  
Examples of Linear Control System Consider a purely resistive network with a constant DC source. This circuit follows the principle of homogeneity and additivity. All the undesired effects are neglected and assuming ideal behavior of each element in the network, we say that we will get linear voltage and current characteristic.

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Stability is one of the important characteristics of control systems analysis. In the linear sense, the stability is characterized by the system producing a bounded output when excited by a bounded input (Ogata, 1979).

**Control System Analysis - an overview | ScienceDirect Topics**  
Control theory deals with the control of continuously operating dynamical systems in engineered processes and machines. The objective is to develop a control model for controlling such systems using a control action in an optimum manner without delay or overshoot and ensuring control stability.Control theory may be considered a branch of control engineering, computer engineering, mathematics ...

**Control theory - Wikipedia**  
Control System Toolbox™ software lets you analyze the dynamics of linear systems. You can visualize system behavior in time domain and frequency domain. You can extract system characteristics such as rise time, overshoot, and settling time. You can also analyze system stability.

**Linear Analysis - MATLAB & Simulink - MathWorks**  
Control theory is divided into two branches. Linear control theory applies to systems made of devices which obey the superposition principle. They are governed by linear differential equations. A major subclass is systems which in addition have parameters which do not change with time, called linear time invariant (LTI) systems.

**Nonlinear control - Wikipedia**  
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