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Control theory, field of applied mathematics that is relevant to the control of certain physical processes and systems. Although control theory has deep connections with classical areas of mathematics, such as the calculus of variations and the theory of differential equations, it did not become a field in its own right until the late 1950s and early 1960s.

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Modern control theory is carried out in the state space, and can deal with multiple-input and multiple-output (MIMO) systems. This overcomes the limitations of classical control theory in more sophisticated design problems, such as fighter aircraft control, with the limitation that no frequency domain analysis is possible.

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The book Modern Control Systems Engineering represents a modern treatment of the classical control theory. It is based on the state space approach where only elementary knowledge in differential equations and linear algebra is needed. Real word examples and problems are implemented practically using the MATLAB package.

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