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(2020). Adaptive robust control for lower limb rehabilitation robot with uncertainty based on Udwadia–Kalaba approach. *Advanced Robotics: Vol. 34, Special Issue on Neuro-Robotics: From Brain Machine Interfaces to Rehabilitation Robotics*, pp. 1012-1022.

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is also a nice segue into the recent L1-adaptive control formulations.

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uncertain parameters or disturbances are found within some (typically compact) set. Robust methods aim to achieve robust performance and/or stability in the presence of bounded modelling errors.

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Adaptive control is the control method used by a controller which must adapt

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to a controlled system with parameters which vary, or are initially uncertain. For example, as an aircraft flies, its mass will slowly decrease as a result of fuel consumption; a control law is needed that adapts itself to such changing conditions.

### **Adaptive control - Wikipedia**

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