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### **Nonlinear Sciences > Chaotic Dynamics**

# Finite-time synchronization of nonautonomous chaotic systems with unknown parameters

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Adaptive control technique is adopted to synchronize two identical nonautonomous systems with unknown parameters in finite time. A virtual unknown parameter is introduced in order to avoid the unknown parameters from appearing in the controllers and parameters update laws. The Duffing equation and a gyrostat system are chosen as the numerical examples to show the validity of the present method.

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