

Given the system

$$dx/dt = Ax, \quad (2)$$

where A is a 2×2 matrix and x is 2×1 vector, an **equilibrium solution** (or **critical point**) for the system (2) is a point where

$$Ax = 0$$

If A is nonsingular (it has an inverse), then the only critical point for system (2) is

$$x = 0$$

Chapter 9 Nonlinear Differential Equations And Stability

Simeon Ola Fatunla



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