



Uncertain Dynamical Systems: Stability and Motion Control (Chapman & Hall/CRC Pure and Applied Mathematics)

A.A. Martynyuk, Yu. A. Martynyuk-Chernienko

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This self-contained book provides systematic instructive analysis of uncertain systems of the following types: ordinary differential equations, impulsive equations, equations on time scales, singularly perturbed differential equations, and set differential equations. Each chapter contains new conditions of stability of unperturbed motion of the above-mentioned type of equations, along with some applications. Without assuming specific knowledge of uncertain dynamical systems, the book includes many fundamental facts about dynamical behaviour of its solutions. Giving a concise review of current research developments, **Uncertain Dynamical Systems: Stability and Motion Control**

- Details all proofs of stability conditions for five classes of uncertain systems
- Clearly defines all used notions of stability and control theory
- Contains an extensive bibliography, facilitating quick access to specific subject areas in each chapter

Requiring only a fundamental knowledge of general theory of differential equations and calculus, this book serves as an excellent text for pure and applied mathematicians, applied physicists, industrial engineers, operations researchers, and upper-level undergraduate and graduate students studying ordinary differential equations, impulse equations, dynamic equations on time scales, and set differential equations.

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