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Strict Stability of Impulsive Differential Equations

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摘要

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Strict Stability of Impulsive Differential Equations

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Abstract In this paper, we will extend the strict stability to impulsive differential equations. By using Lyapunov functions, we will get some criteria for the strict stability of impulsive differential equations, and we can see that impulses do contribute to the system's strict stability behavior. An example is also given in this paper to illustrate the efficiency of the obtained results.

Key words   Impulsive differential equation   Strict stability   Lyapunov function

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