

论文

一类泛函微分方程的稳定性定理及其应用

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摘要 本文采用一种新方法研究 RFDE 稳定性问题,其特点是不必构造 Liapunov 泛函,用起来比较简单,应用得到的稳定性定理,本文还研究了许多领域中有重要意义的Volterra 积分微分方程的周期解的唯一性和稳定性问题.

关键词

分类号

THE STABILITY THEOREMS FOR A CLASS OF FUNCTIONAL DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS

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Abstract In the investigation on stability of functional differential equations Liapunov's direct method is an important and fundamental tool, but, frequently, it is difficult to construct a suitable Liapunov functional for concrete equations. In this paper, a new method is used to study the stability for retarded functional differential equations. It does not require using the Liapunov functional, so it is quite convenient to use. By means of the stability theorems obtained, the uniqueness and stability of periodic solution of Volterra integro-differential equations are dealt with.

Key words

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