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逐段常变量微分方程组概周期型解存在唯一性

杨喜陶

湘潭湖南科技大学数学系

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摘要 通过差分方程指数二分法, 我们研究了一类具有变系数逐段常变量微分方程组概周期与伪概周期解的存在唯一性与渐近稳定性, 改进了已有文献的结果, 并且得到了差分方程满足指数二分性的一个充分条件.

关键词 [逐段常变量](#) [概周期解](#) [伪概周期解](#)

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The Unique Existence of Almost Periodic Solutions for the System of] Differential Equations with Piecewise Constant Argument

Xi Tao YANG

Department of Mathematics, Hunan University of Science and Technology, Xiangtan 411201

Abstract In this paper, we deal with the unique existence and asymptotic stability of almost periodic solution and pseudo-almost periodic solution for the systems of varying coefficient differential equations with piecewise constant argument by virtue of the exponential dichotomy for difference equations. Our results improve those in the literature. Moreover, we have obtained a sufficient condition which guarantees the exponential dichotomy for the difference equations.

Key words [piecewise constant argument](#) [almost periodic solutions](#) [pseudo almost periodic solutions](#)

DOI:

通讯作者 杨喜陶 yangxitaol@sohu.com, yangxitaol@163.net

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