

SPURIOUS NUMERICAL SOLUTIONS OF DELAY DIFFERENTIAL EQUATIONS

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摘要

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SPURIOUS NUMERICAL SOLUTIONS OF DELAY DIFFERENTIAL EQUATIONS

Hong-jiong Tian(1), Li-qiang Fan(2), Yuan-ying Zhang(2), Jia-xiang Xiang(2)

(1)Department of Mathematics, Shanghai Normal University, Division of Computational Science, E-Institute of Shanghai Universities, Shanghai 200234, China; (2)Department of Mathematics, Shanghai Normal University, Shanghai 200234, China

Abstract This paper deals with the relationship between asymptotic behavior of the numerical solution and that of the true solution itself for fixed step-sizes. The numerical solution is viewed as a dynamical system in which the step-size acts as a parameter. We present a unified approach to look for bifurcations from the steady solutions into spurious solutions as step-size varies.

Key words [Spurious solution](#) [Asymptotic behavior](#) [Delay differential equation](#).

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