MODIFIED ADOMIAN DECOMPOSITION METHOD FOR SINGULAR INITIAL VALUE PROBLEMS IN THE SECOND-ORDER ORDINARY DIFFERENTIAL EQUATIONS

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Abstract. In this paper an efficient modification of Adomian decomposition method is introduced for solving singular initial value problem in the second-order ordinary differential equations. The scheme is tested for some examples and the obtained results demonstrate efficiency of the proposed method.

Full text

References


2000 Mathematics Subject Classification: 65L05.
Keywords: Modified Adomian decomposition method; Singular ordinary differential equations.
This work was supported by the National Natural Science Foundation of China (10471067)


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