عنوان مقاله:

Numerical solution of sti systems of di erential equations arising from chemical reactions

نویسندگان:

g hojjati. - *Faculty of Mathematical Sciences, University of Tabriz, Tabriz, Iran*

a abdi. - *Faculty of Mathematical Sciences, University of Tabriz, Tabriz, Iran*

f Mirzaee - *Department of Mathematics, Faculty of Science, Malayer University, Malayer, Iran*

s Bimesl - *Department of Mathematics, Faculty of Science, Malayer University, Malayer, Iran*

خلاصه مقاله:

Long time integration of large stiff systems of initial value problems, arising from chemical reactions, demands efficient methods with good accuracy and extensive absolute stability region. In this paper, we apply second derivative general linear methods to solve some stiff chemical problems such as chemical Akzo Nobel problem, HIRES problem and OREGO problem.

کلمات کلیدی:

General linear methods; Ordinary di erential equation; Chem-ical reactions; Sti systems

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