

Stability region of 3-point block backward differentiation formula

ABSTRACT

In this paper, we focus on the stability region of the variable step size of 3-point block backward differentiation formula (VSBBDF) method. The graphs are plotted using MAPLE software. To show the performance of the method, the accuracy is presented in the numerical results to solve first order stiff ordinary differential equations (ODEs).

Keyword: Block backward differentiation formula; Stability region; Stiff