NUMERICAL METHOD FOR A CLASS OF SINGULAR INITIAL

VALUE PROBLEMS

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ABSTRACT.

For the numerical integration of initial value problems
(1.1) some explicit single step methods of the form (2.1) -
(2.2) and (4.20)-(4.21) having the order of accuracy $O(h^5)$ for
the solution $y(x)$ and $O(h^4)$ for its derivative $y'(x)$, are
presented.