



SDI Review Form 1.6

Journal Name:	<u>British Journal of Mathematics & Computer Science</u>
Manuscript Number:	Ms_BJMCS_24322
Title of the Manuscript:	SIXTH-ORDER SELF-STARTING INITIAL VALUE SOLVER
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	I suggest the Topic should Read “A SIXTH-ORDER SELF-STARTING ALGORITHMS FOR SECOND ORDER INITIAL VALUE PROBLEMS OF ODEs”. The Matrix equation (4) is unclear. Clearly write out your Eight non linear equations used to form Matrix equation (4). Lin 7 should read. This paper focuses derivation of three step block method through collocation and interpolation. Line 9 should read: difference formulae for the solution of second order Initial Value Problems in Ordinary Differential Line 10 should read:. The analysis of this self-starting method shows that the method is efficient, Line 36-37 should read:. In this section, we consider the development of three-step hybrid block method for the solution of the form Line 39 should read: Consider the Chebyshev	I quite appreciate your observation and contribution. The title has been corrected as suggested. The equation (4) has been written out clearly. Other suggestions have been addressed as suggested. For the sake of the request, $T_n(x)$ has been written out BUT if the paper is finally accepted, I still prefer that it should not be included. Non-linear problem has been considered as example three.



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	polynomial in the form Between lines 45-47: clearly write out the Chebyshev polynomial ie $T(x)$ After line 50: Note this remark: Your Matrix (4) is unclear. Write out your Eight system of non linear equations to justify the matrix equation (4). Line 54 should read: $y(x) = \alpha_{\frac{1}{2}}(t)y_{n+\frac{1}{2}} + \alpha_{\frac{3}{2}}(t)y_{n+\frac{3}{2}} + h^2[\beta_0(t)f_n + \dots \beta_3(t)f_{n+3}]$ After Line 79: State the Order and Error constants of all discrete schemes obtained from equation (10) Line 91 should read: Here, we consider the application of the derived schemes to two test problems for the efficiency The two problems tested are simple linear problems. I suggest you subject this method to non linear problems and life problems. Please clarify the ethical issue:	
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	Clearly state $T(x)$ Write out your equation (5) ie (Continuous equation) explicitly to justify all your Discrete schemes obtained in equations 6-9.	
<u>Minor</u> REVISION comments	State the Order and Error constants of all the Discrete schemes obtained from equation (10)	
<u>Optional/General</u> comments		