



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2014_BJMCS_14139
Title of the Manuscript:	Quarter-Step Continuous Hybrid Block Method for First-Order Ordinary Differential Equations
Type of the 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)
Compulsory REVISION comments	Line 1 should read: A Quarter-step hybrid block method for first order ordinary differential equations. Line 5 In this paper, we derive a new quarter-step hybrid.... Line 7 should read: The evaluation is carried out at off grid points within the step of the method to produce various discrete schemes to form our block method. Line 8 should be deleted Line 18: Remove stated below. Line 19-24 should move to line 37 Lines 25 and 26 .The correct word there is Model led. Line 44:	Corrected Corrected Corrected Deleted Deleted Noted Noted Noted



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	$y' = \sum_{j=1}^{r+s-1} ja_j x^{j-1}$	Noted
	Line 50: Should be written explicitly i.e.	Noted
	$x_{n+r}, r = \left[0, \frac{1}{24}, \frac{1}{8}, \frac{1}{6}, \frac{5}{24}, \frac{1}{4}\right]$	
	Line 61 is not explicit and confusing, I suggest this	
	$y(t) = \alpha_0(t)y_n + h \left[\beta_0(t)f_n + \beta_{\frac{1}{24}}(t)f_{n+\frac{1}{24}} + \beta_{\frac{1}{12}}(t)f_{n+\frac{1}{12}} + \beta_{\frac{1}{8}}(t)f_{n+\frac{1}{8}} + \beta_{\frac{1}{6}}(t)f_{n+\frac{1}{6}} + \beta_{\frac{5}{24}}(t)f_{n+\frac{5}{24}} \right]$	Noted
	Line 65: Evaluating (6) at $t = \left[\frac{1}{24}, \frac{1}{8}, \frac{1}{6}, \frac{5}{24}, \frac{1}{4}\right]$ gives discrete block schemes of the form:	Noted
	Write out the schemes obtained from equation (7) clearly.	Noted
	Link the schemes obtained to line 68-71 and give line 70-71 equation numbering.	Noted
	Line 91 should read: Therefore, the quarter-step method is of uniform order 6	Noted
	Line 93: Remove [6]	Noted



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	Line 110: Remove [9] Line 112: write see[9] Line 122-128: Please state the Software used to plot this region of Absolute stability Line 181:.....from the results obtained the quarter-step method performed better than the existing method with which we compared our results. Line 185: We developed a new method called a quarter step... Final Remark Before you can confidently recommend this quarter step length method for problem 1, you need to solve at least one non linear problem and compare the results obtain with the existing one. I suggest the problem $y' = -y^2 \quad , y(0) = 1 \quad h = 0.01$ Exact solution: $y(x) = \frac{1}{x+1}$ Good Luck	Noted Noted
Minor REVISION comments		
Optional/General comments		