THE NUMERICAL SOLUTION OF THE NEWTONIAN FLUIDS FLOW DUE TO A STRETCHING CYLINDER BY SOR ITERATIVE PROCEDURE

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ABSTRACT

The numerical solution has been obtained of the governing equations for the steady, incompressible fluid flow due to a stretching cylinder. The numerical results are calculated, by using SOR method and Simpson's (1/3) rule, for the range 0.1 to 100 of the parameter *R*. The accuracy of the results is checked very carefully by performing calculations on three different grid sizes and comparing them with the know results.

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