

## Application of Variational Iteration Method to Linear and Non-linear Stiff Differential Equations

**Olayiwola, M.O.**

Department of Mathematical Sciences  
Faculty of Basic and Applied Sciences  
College of Science, Engineering and Technology  
Osun State University, Osogbo, Nigeria  
**E-mail:** [olayiwola.oyedunsi@uniosun.edu.ng](mailto:olayiwola.oyedunsi@uniosun.edu.ng)  
**Phone:** +2348131109234, +2348055218234

### ABSTRACT

In this paper, the variational iteration method (VIM) is used to solve linear, non-linear and system of stiff differential equations numerically. The numerical solution obtained is in good agreement with the exact solutions of problems under investigation. The method is a promising tool for the solution of stiff differential equations, both linear, non-linear and systems.

**Keywords:** VIM, Stiff differential equations, systems of differential equations.

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