



VARIATIONAL ITERATION METHOD FOR SOLVING REACTION-DIFFUSION EQUATIONS

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Abstract

In this paper, reaction-diffusion equations are solved through variational iteration method and the results are comparing with those exact solutions, which show a good agreement and consistency with the exact solution. In addition, we show that VIM is able to solve a large class of couple system of linear and nonlinear problems effectively, more easily and accurately.

Keywords and phrases: variational iteration method (VIM), reaction-diffusion equation, system of linear and nonlinear problems.