

1139-35-157

Adem Cengiz Cevikel* (acevikel@yildiz.edu.tr), YTU College of Education, Department of Mathematics Education, Davutpasa Campus, Esenler, 34210 Istanbul, Turkey, and **Mutlu Akar** (makar@yildiz.edu.tr), YTU College of Arts and Sciences, Mathematics Department, Davutpasa Campus, Esenler, 34210 Istanbul, Turkey. *Periodic and Solitary Wave Solutions for the Nonlinear Evolution Equations.*

In this paper, we present a functional variable method for finding periodic wave and solitary wave solutions of nonlinear evolution equations in mathematical physics and engineering sciences. The proposed technique is tested on the some nonlinear equations. The method is straightforward and concise, and it can also be applied to other nonlinear evolution equations in applied mathematics. (Received February 07, 2018)