Dynamical Analysis of Corona-Virus (COVID-19) Epidemic Model by Differential Transform Method

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Abstract

The aim of this paper is to apply the Differential Transformation Method (DTM) to analyze and obtain the solution for the mathematical model described by the system of non-linear ordinary differential equations which describe the epidemiology of the most threatening virus called \textbf{Corona-virus} later labeled as COVID-19. Finally, the present study may help you to examine the wild class of real-world models and also aid to predict their behavior with respect to parameters considered in the model. The purpose of this study is to estimate the effectiveness of preventive measures, predicting future outbreaks, and potential control strategies using the mathematical model.

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3

7