Abstract

In this paper, we introduce the numerical solution of the system of SEIR nonlinear ordinary
differential equations, which are studied the effect of vaccine on the HIV (Human Immunology
virus). We obtained the numerical solutions on stable manifolds by Runge-Kutta fourth order
method.

References

1. L. Bubniakov, the Mathematics of Infectious Diseases, Bratislav 2007.
2. H. Weiss, the SEIR model and the foundations of public health, Materials Mathematics,
Spatial and Temporal Spread of Measles in Meta populations, Abstract and Applied Analysis,


Index Terms

Computer Science  Applied Mathematics

Keywords

SEIR model; nonlinear ordinary differential equations; Runge-Kutta fourth order method.