عنوان مقاله:

A Model for Transmission of Infection in a Population

محل انتشار:

تعداد صفحات اصل مقاله: 5

نویسنده:

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خلاصه مقاله:

Acontinuous-time model for transmission of infection in a population is investi-gated. It is shown that the model has two equilibria: the infection-free equilibriumand the infected equilibrium. An speci c threshold in terms of model parameters is obtained and then existence of the equilibria and asymptotic stability of the system arestated by means of this threshold. Finally, the results are also considered numerically.

کلمات کلیدی:

Dynamical System, Stability, Routh-Hurwitz criterion

لینک ثابت مقاله در پایگاه سیویلیکا: