**Epidemic Models for Socially Structured Communities. Edition No. 1**

**Description:** Mathematical models have become important tools in analysing the spread and control of infectious diseases. The development of such models is aimed at both understanding observed epidemiological patterns and predicting the consequences of the introduction of public health interventions to control the spread of diseases. This monograph, therefore, provides two vaccination strategies for the contact tracing during the early stages of the epidemic. A community partitioned into households is also considered. Expressions are derived for the influence of the reproduction number of the vaccination. Some numerical examples are given on how the vaccination strategies affect the reproduction numbers. The results illustrate how effective the strategies are in reducing the spread of the disease.

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