论文

EXISTENCE AND UNIQUENESS OF ENDEMIC STATES FOR THE AGE-STRUCTURED SEIR EPIDEMIC MODEL

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摘要   An age-structured SEIR epidemic model of a vertically as well as horizontally

transmitted disease is investigated. Threshold results for the existence of endemic

states are established for most cases. Under certain conditions, uniqueness is also

shown. Threshold used are explicitly computable in term of demographic and

epidemiological parameters of the model.

关键词   Age structure, positive endemic state, S

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