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Título: Extinction And Quasi-Stationarity In The Stochastic Logistic Sis Model (Vol. 20)

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Precio: \$821.30

Editorial:

Año: 2011

Tema:

Edición: 1^a

Sinopsis

ISBN: 9783642205293

This volume presents explicit approximations of the quasi-stationary distribution and of the expected time to extinction from the state one and from quasi-stationarity for the stochastic logistic SIS model. The approximations are derived separately in three different parameter regions, and then combined into a uniform approximation across all three regions. Subsequently, the results are used to derive thresholds as functions of the population size N .