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Communications on Stochastic Analysis Volume 13 Number 3 Article 8 9-2019 Stochastic Partial Differential Equation SIS Epidemic Models: Modeling and Analysis Nhu N. Nguyen Department of Mathematics, Wayne State University, Detroit, MI 48202, USA, nguyen.nhu@wayne.edu George Yin

Stochastic Partial Differential Equation SIS Epidemic ...

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Modeling, Analysis, Design, and Control of Stochastic Systems (Springer Texts in Statistics) Hardcover – December 15, 2000 by V. G. Kulkarni (Author) 4.3 out of 5 stars 4 ratings

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Modeling and Analysis of Networked Control Systems using Stochastic Hybrid Systems Jo–ao P. Hespanha: September 3, 2014 Abstract This paper aims at familiarizing the reader with Stochastic Hybrid Systems (SHSs) and enabling her to use these systems to model and analyze Networked Control Systems (NCSs).

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Staff View: Modeling and analysis of stochastic systems

In this paper, stochastic noises are incorporated into a minimal model of Alzheimer's disease which focuses upon the evolution of beta-amyloid and calcium. Mathematical analysis indicates that solutions of the model without stochastic noises converge either to a unique equilibrium or to bistable equilibria.

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A stochastic or random process can be defined as a collection of random variables that is indexed by some mathematical set, meaning that each random variable of the stochastic process is uniquely associated with an element in the set. The set used to index the random variables is called the index set.