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Stochastic chemical kinetics attempts to describe the time evolution of a well- stirred chemically reacting system in a way that takes honest account of the system's discreteness and stochasticity.

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STOCHASTIC CHEMICAL KINETICS: Theory and Systems Biological Applications P ter rdi perdi@kzoo.edu Henry R. Luce Professor Center for Complex Systems Studies

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Stochastic chemical kinetics describes the time evolution of a chemically reacting system in a way that takes into account the fact that molecules come in whole numbers and their collisions are random events.

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PROCESSES modelling of chemical reactions. Then stochastic algorithms for modelling molecular diffusion are given. Finally, basic stochastic reaction-diffusion methods are presented. The connections between stochastic simulations and deterministic models are explained and basic mathematical tools (e.g. chemical master