

Introduction To The Numerical Solution Of Markov Chains

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~~Introduction to the Numerical Solution of IVP for ODE~~

solution $y = w(x)$ to the differential equation $y' = f(x, y)$ satisfying the initial condition $w(x_0) = z$ is defined for all $x \in [x_0, X_M]$ and satisfies $|w(x) - w(x_0)| < \epsilon$ for all $x \in [x_0, X_M]$. A solution which is stable on $[x_0, X_M]$ (i.e. stable on $[x_0, X_M]$ for each X_M and with ϵ independent of X_M) is said to be stable in the sense of Lyapunov.

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The solution on $t \in [0, 1]$ is given by $X(t) = e^{at} + b a^{-2} - b a t - b a^2 + e^{at} - a t e^{-at} - d W(s)$. We have then used this solution as a starting function to compute an 'explicit solution' on the second interval $[1, 2]$ with a standard SODE-method and a small stepsize. In the case of multiplicative noise we have computed an 'explicit solution' on a very fine grid (2048 steps) with the Euler-Maruyama scheme.

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These are techniques used to find a specific solution to a mathematical problem. a. analytical Methods b. mathematical Methods c. scientific Methods d. numerical Methods ____ 5. These are usually the number of decimal places that can be accepted as an answer from a numerical solution. a. number of nths b. number of significant figures

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