

## 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  $\|w(x) - w(x')\| < \epsilon$  for all  $x, x' \in [x_0, X_M]$ . A solution which is stable on  $[x_0, \infty)$  (i.e. stable on  $[x_0, X_M]$  for each  $X_M$  and with  $\epsilon$  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  $X(t) = e^{(1+b^2)t} - b^2 \int_0^t e^{(1+b^2)s} ds + b^2 \int_0^t e^{(1+b^2)s} W(s) ds$ . 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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