PROBABILITY AND MATHEMATICAL STATISTICS Vol. 11, Fasc. 1 (1990), pp. 109–120

## QUANTITATIVE RESULTS ON MONOTONE APPROXIMATION OF STOCHASTIC PROCESSES

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*Abstract:* The rate of convergence of monotone approximation procedures for stochastic processes is studied. Several applications are discussed: discretizing time series, constructing solutions of linear stochastic differential equations and simulating distributions of continuous functionals.

2000 AMS Mathematics Subject Classification: Primary: -; Secondary: -; Key words and phrases: -

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