

ATENEEO



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Integral transform numerical methods for partial differential models with a finite degree of randomness

Abstract: In this talk we discuss how to construct manageable numerical solutions of random partial differential models with a finite degree of randomness allowing the computation of the expectation and variance of the approximating stochastic process solution. The construction of the numerical solution is performed by means of a combination of a random integral transform, the use of Montecarlo method and numerical integration quadrature. Numerical convergence throughout simulations is simulated with illustrative examples.

Sala de Grados I, Facultad de Ciencias
Jueves 19 de Marzo de 2020 (17:00)

