STOCHASTIC CALCULUS AND APPLICATIONS

CÉDRIC BERNARDIN, RÉMI CATELLIER

This course is devoted to the introduction of the basic concepts of continuous time stochastic processes which are used in many fields: physics, finance, biology, medicine, filtering theory, decision theory. It will consist of a presentation of Brownian motion, Itô integral, stochastic differential equations and Girsanov theorem. Several applications will be given.

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