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Asymptotic Expansions of Transition Densities for Hybrid Jump-diffusions

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摘要 A class of hybrid jump diffusions modulated by a Markov

chain is considered in this work. The motivation stems from

insurance risk models, and emerging applications in production

planning and wireless communications. The models are hybrid in

that they involve both continuous dynamics and discrete events.

Under suitable conditions, asymptotic expansions of the transition

densities for the underlying processes are developed. The formal

expansions are validated and the error bounds obtained.

关键词 [Markov chain, jump diffusion, hybrid model, Poisson process, asymptotic expansion](#)

分类号

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Abstract

Key words

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