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Approximation of mesurable processes with continuous and with simple processes

Aurel CORNEA, Gabriela LICEA

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Abstract : By means of a Lebesgue derivation theorem for the Stieltjes integral, an almost everywhere approximation theorem with respect to $dA_t dP$ is given.This leads to essential simplifications of the construction of the stochastic integral with respect to a continuous martingale M for which $< M >$ is not absolutely continuous.

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