

Merton's Jump-Diffusion Model

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1 Stochastic Differential Equation for S_t

In Merton's jump-diffusion model for option pricing, the price process of an underlying asset S_t is assumed to follow the stochastic differential equation (sde)

$$dS_t = \mu S_t dt + \sigma S_t dW_t + S_t \cdot d \left(\sum_{j=0}^{N(t)} (V_j - 1) \right) ,$$

where V_j are i.i.d. log-normal random variables. This SDE can be solved to obtain

$$S_t = S_0 \exp \left\{ \left(\mu - \frac{1}{2} \sigma^2 \right) t + \sigma W_t \right\} \prod_{j=0}^{N(t)} V_j .$$

Set $Y_j \equiv \log V_j \sim N(\alpha, \beta^2)$ and rewrite S_t to obtain

$$X_t \equiv \log \frac{S_t}{S_0} = \left(\mu - \frac{\sigma^2}{2} \right) t + \sigma W_t + \sum_{j=0}^{N(t)} Y_j .$$

2 The Characteristic Function of X_t

Since W_t , $N(t)$, Y_j are mutually independent, the characteristic function of X_t is

$$\begin{aligned} \mathbb{E} \left(e^{iuX_t} \right) &= \mathbb{E} \left(e^{iu \left(\mu - \frac{\sigma^2}{2} \right) t} \right) \mathbb{E} \left(e^{i\sigma u W_t} \right) \mathbb{E} \left(\exp \left\{ iu \sum_{j=0}^{N(t)} Y_j \right\} \right) \\ &= e^{iu \left(\mu - \frac{\sigma^2}{2} \right) t} e^{-\frac{\sigma^2 u^2}{2} t} \mathbb{E} \left(\exp \left\{ iu \sum_{j=0}^{N(t)} Y_j \right\} \right) . \end{aligned}$$

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