

Kajian harga opsi put Eropa dengan aset dasar zero-coupon bond dan tingkat bunga yang mengikuti model Vasicek dengan jump = Study on European put option pricing with underlying asset zero-coupon bond and interest rate following the Vasicek model with jump

Pamelia Carissa Lukman, author

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Abstrak

Tugas akhir ini mengkaji harga opsi put Eropa dengan aset dasar zero-coupon bond dan tingkat bunga diasumsikan mengikuti model Vasicek dengan jump. Kajian dilakukan dengan mengkonstruksi kembali persamaan harga opsi put Eropa tersebut. Ukuran jump didefinisikan mengikuti distribusi mixed-exponential. Dengan memanfaatkan infinitesimal generator dan konsep martingale dapat dikonstruksi transformasi Laplace dari distribusi model Vasicek dengan jump. Kemudian, dengan menggunakan hasil transformasi Laplace dari distribusi model Vasicek dengan jump dan konsep equivalent martingale measure dapat dikonstruksi persamaan harga opsi put Eropa dengan aset dasar zero-coupon bond.

.....This undergraduate thesis examines the price of European put options with underlying asset zero-coupon bond and the interest rate following the Vasicek model with jump. The study was conducted by reconstructing the European put option pricing equation. The jump size is defined following a mixed-exponential distribution. By utilizing infinitesimal generators and martingale concepts, Laplace transform is constructed for the distribution of the Vasicek model with jump. Then, using the results of the Laplace transform for the distribution of the Vasicek model with jump and the concept of equivalent martingale measure, the European put option pricing equation with underlying asset zero-coupon bond is constructed.