$$\begin{array}{lll}
+ 1 & \lambda \left(v_{t} - \overline{v} \right) \Delta t + \eta \sqrt{v_{t}} \Delta z \left(t_{h} \right) \\
+ \frac{1}{2} \cdot \eta \cdot \sqrt{v_{t}} \cdot \eta \cdot \frac{1}{2\sqrt{v_{t}}} \cdot \left(\Delta z^{2} - \Delta t \right) \\
&= -\lambda \left(v_{t} - \overline{v} \right) \Delta t + \eta \sqrt{v_{t}} \Delta z \\
+ \frac{1}{4} \eta^{2} \cdot \left(\Delta z^{2} - \Delta t \right) \\
&= -\lambda \left(v_{t} - \overline{v} \right) \Delta t + \eta \sqrt{v_{t}} \cdot \sqrt{\Delta t} \cdot \phi_{t} \\
+ \frac{1}{4} \eta^{2} \cdot \left(\Delta t \cdot \rho_{t}^{2} - \Delta t \right) + v_{t} \\
&= \frac{\eta^{2}}{4} \Delta t \cdot \phi_{t}^{2} + \eta \sqrt{v_{t}} \cdot \sqrt{\Delta t} \cdot \phi_{t} - \lambda \left(v_{t} - \overline{v} \right) \Delta t + v_{t} \\
&= \frac{\eta^{2}}{4} \Delta t \cdot \phi_{t}^{2} + \eta \sqrt{v_{t}} \cdot \sqrt{\Delta t} \cdot \phi_{t} - \lambda \left(v_{t} - \overline{v} \right) \Delta t + v_{t}
\end{array}$$

$$\begin{cases}
S = 0 \\
Bo = 2.323319 & -0.01664 + 0.016 \times 100 + Bo = 0
\end{cases}$$

$$Vo = 0.01664 \\
S_o = 0.01664$$

$$S_o = 0.01664$$

$$V(S_o, 0) = 0.01664$$

$$V(S_o, 0$$

0256190

0,01664

<u>-0,140201</u>

$$f(log(J)) = pu un exp(-lu log(J))$$

 $f(l-pu). lu exp(lu log(J))$

$$f(v) = s$$

£ = 0

for funder ly 20 + (1-pn) he exp(hey) ly <0

$$f(J) = pu \mu e^{-\mu u} |_{J \ge 1} + (1-pn) he exp(he) |_{J < 1}$$

$$y = \log J$$

$$J = e^{y}$$

$$\int_{J = e^{y}} \frac{dx}{dy} = \frac{dx}{dy} = \frac{dx}{dy} = \frac{dx}{dy} = \frac{dx}{dy}$$

$$pu \cdot \int_{K}^{\infty} e^{-K} dK = pn \left[-e^{-X} (3H) \right]_{0}^{\infty}$$

$$pu \left[0 + 1 \right]_{0}^{\infty} = pu \mu u$$

$$(1-pu)$$

$$\int_{-\infty}^{\infty} \mu_{0} dy \exp(u_{0} dy) dy$$

$$E(J-1)$$

$$E(J) = E(e^{y})$$

$$= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} (e^{y} p_{u} \mu_{u} e^{-\mu_{u}y} \cdot |y|_{20}) dy$$

$$= \int_{-\infty}^{\infty} p_{u} \mu_{u} e^{(1-\mu_{u})y} dy$$

$$= \int_{0}^{\infty} p_{u} \mu_{u} e^{(1-\mu_{u})y} dy$$

$$= \int_{0}^{\infty} p_{u} \mu_{u} e^{(1-\mu_{u})y} dy$$

$$= \int_{0}^{\infty} e^{y} (1-p_{u}) dy e^{-\mu_{u}y}$$

$$= \int_{0}^{\infty} e^{y} (1-p_{u}) dy e^{-\mu_{u}y} dy$$

$$= \int_{0}^{\infty} e^{(1-\mu_{u})y} dy$$

$$= \int_{0}^{\infty} e^{(1-\mu_{u}$$

$$P^{\alpha} \left[\frac{-1}{u_{\alpha}} \left[0 - 1 \right] \right] + \left(1 + p_{\alpha} \right) \left[\frac{1}{u_{\alpha}} \left(-1 - 0 \right) \right]$$

$$E(y) = \frac{p_{\alpha}}{u_{\alpha}} + \frac{p_{\alpha} - 1}{u_{\alpha}}$$

$$E(y^{2}) = pu \left[\frac{-(u_{u}^{2}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u_{u}q}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[\frac{(u_{u}q^{2} + 2u_{u}q + 2)e^{-u}}{u_{u}^{2}} \right] = u_{u}q + (1-pu) \left[$$

$$= pu \left[\frac{-1}{uu} \left[3 - 2 \right] + (1-pu) \left[\frac{1}{uu} \left[2 - 0 \right] \right] \right]$$



