Assignment Consists Cxam Help Volatility Models - I

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Regressions and Autoregressions

ullet Consider a regression for the mean of y_t with ARCH(q) errors:

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$$\varepsilon_t = \nu_t \sqrt{\alpha_0 + \alpha_1 \varepsilon_{t-1}^2 + \dots + \alpha_q \varepsilon_{t-q}^2}$$

when ttps: // $powcoder[cQm \lor t, s]$

• Consider an autoregressive model, AR(1), of the mean of y_t with GARCH(1,1) errors:

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$$y_t = a_0 + a_1 y_{t-1} + \varepsilon_t |a_1| < 1$$

$$\varepsilon_t = \nu_t \sqrt{\alpha_0 + \alpha_1 \varepsilon_{t-1}^2 + \beta_1 h_{t-1}}$$

 α_0, α_1 and β_1 to be non-negative, $\alpha_1 + \beta_1 < 1$