

Port Solio: Asset, whose valve is WI+)
$$\Delta(t) \text{ is } \# \text{ shares } \text{ we own, only frade}$$

$$\text{at } \frac{\text{beginning of }}{\text{beginning of }} \text{ of } \text{ the day}$$

$$\frac{\text{day } 0:}{\text{position }} \text{ $\Delta(t_0)$} \text{ at nost }} \text{ $W(0)$} \Delta(t_0)$$

$$\text{It}(t) \Rightarrow \text{"the value of }} \text{ the postfolio } \text{ $Q$} \text{ time }} t''$$

$$\text{It}(t) = \Delta(t_0) \left( \text{W}(t) - \text{W}(t_0) \right)$$

$$\text{Doy 1:} \quad t_1 \leq t < t_2$$

$$\text{position }} \Delta(t_0)$$

$$\text{It}(t) = \Delta(t_0) \left( \text{W}(t_0) - \text{W}(t_0) \right) + \Delta(t_0) \left( \text{W}(t_0) - \text{W}(t_0) \right)$$

$$\text{The }} \Delta(t_0) \left( \text{W}(t_0) - \text{W}(t_0) \right) + \Delta(t_0) \left( \text{W}(t_0) - \text{W}(t_0) \right)$$

$$+ \Delta(t_0) \left( \text{W}(t_0) - \text{W}(t_0) \right)$$

$$\text{Day n:} \quad t_0 \leq t < t_{n_0}$$

$$\text{The }} \Delta(t_0) \left( \text{W}(t_0) - \text{W}(t_0) \right)$$

$$\text{back to } day \text{ $Z$} : \quad t_2 \leq t < t_3$$

$$\text{It}(t_0) = \int_0^t \Delta(t_0) dW(t_0) = \int_{t_0}^t \Delta(t_0) dW(t_0)$$

$$+ \int_{t_0}^t \Delta(t_0) dW(t_0)$$

$$+ \int_{t_0}^t \Delta(t_0) dW(t_0)$$

$$= \Delta(t_0) \int_{t_0}^t dW(t_0) + \Delta(t_0) \int_{t_0}^t dV(t_0) + \Delta(t_0) \int_{t_0}^t dV(t_0)$$

$$\text{W}(t_0) - \text{W}(t_0)$$

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$$Core I: t \in Ten, ten) Set La, ten)$$

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$$Such that  $A \in K$ 

$$T(e) = \sum_{j=0}^{k-1} \Delta(e_j)(\nu(e_{j+1}) - \nu(e_j)) + \Delta(e_j)(\nu(e_{j+1}) - \nu(e_j))$$

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$$E(R) = \sum_{j=0}^{k-1} \Delta(e_j)(\nu(e_{j+1}) - \nu(e_j)) + \sum_{j=0}^{k-1} \Delta(e_j)$$

$$= \sum_{j=0}^{k-1} \Delta(e_j)(\nu(e_{j+1}) - \nu(e_j)) + \sum_{j=0}^{k-1} \Delta(e_j)$$

$$= \Delta(e_k) = \sum_{j=0}^{k-1} \Delta(e_j)(\nu(e_{j+1}) - \nu(e_j)) + \sum_{j=0}^{k-1} \Delta(e_j)$$

$$= \Delta(e_k) = \sum_{j=0}^{k-1} \Delta(e_j)(\nu(e_{j+1}) - \nu(e_j)) + \sum_{j=0}^{k-1} \Delta(e_j)$$

$$= \Delta(e_k) = \sum_{j=0}^{k-1} \Delta(e_j)(\nu(e_{j+1}) - \nu(e_j)) + \sum_{j=0}^{k-1} \Delta(e_j)$$

$$= \Delta(e_k) = \sum_{j=0}^{k-1} \Delta(e_j)(\nu(e_{j+1}) - \nu(e_j)) + \sum_{j=0}^{k-1} \Delta(e_j)(\nu(e_{j+1}) - \nu(e_j))$$

$$= \Delta(e_k) = \sum_{j=0}^{k-1} \Delta(e_j)(\nu(e_{j+1}) - \nu(e_j)) + \sum_{j=0}^{k-1} \Delta(e_j)(\nu(e_{j+1}) - \nu(e_j)$$

$$= \sum_{j=0}^{k-1} \Delta(e_j)(\nu(e_{j+1}) - \nu(e_j)(e_j) + \sum$$$$

$$D_{K} = W(t_{i+1}) - W(t_{i})$$

$$= W(t_{i+1}) - W(t_{i})$$

$$= \sum_{j=0}^{K} \Delta(t_{j}) D_{j}$$

$$= \sum_{j=0}^{K} \Delta(t_{j}) D_{j}^{2} + \sum_{j=0}^{K} \Delta(t_{j}) \Delta(t_{j}) \Delta(t_{j}) \Delta(t_{j}) D_{i}^{2} D_{j}^{2}$$

$$= \sum_{j=0}^{K} \Delta(t_{j}) D_{i}^{2} + \sum_{j=0}^{K} \Delta(t_{j}) D_{j}^{2} + \sum_{j=0}^{K} \Delta(t_{j}) \Delta(t_{j}) D_{i}^{2} D_{j}^{2} + \sum_{j=0}^{K} \sum_{j=0}^{K} \Delta(t_{j}) D_{j}^{2} + \sum_{j=0}^{K} \sum_{j=0}^{K} \Delta(t_{j}) D_{j}^{2} + \sum_{j=0}^{K} \sum_{j=0}^{K} \Delta(t_{j}) D_{j}^{2} + \sum_{j=0}^{K} \sum_{j=0}^{K} \sum_{j=0}^{K} \Delta(t_{j}) D_{j}^{2} + \sum_{j=0}^{K} \sum_$$

$$\begin{split} & \left[ \begin{array}{c} \prod_{j \in I} \int_{A_j} \int_{A_j$$

$$\int_{0}^{t} W(u) dW(u) = \int_{\eta \to \infty}^{1} \int_{0}^{t} \int_{0}^{$$