$$|W(w) - W(t)| = \begin{cases} W_{1}(w) - W_{1}(t), & W_{2}(w) - W_{2}(t), & \dots \\ W_{N}(w) - W_{N}(t) \end{cases}$$

$$|W_{N}(w) - W_{N}(t)| = 0$$

$$|W(w) - W(w)| = 0$$

$$|W($$

$$\begin{split} & \times \langle t \rangle = \times \langle 0 \rangle + \prod_{j \in I} (t) + \prod_{j \in I} (t) + i \times (t) \\ & \times \times \left[\langle t \rangle = \lim_{j \in I} (t) - \sum_{j \in I} (t) + i \times (t) +$$

$$\int_{t}^{t} f(t, M(t)) = \int_{t}^{t} (t, M(t)) dt + \int_{x}^{t} (t, M(t)) dM(t) \\
+ \frac{1}{2} \int_{xx}^{t} (t, M(t)) d\int_{x}^{t} M(t) dM(t) \\
= (\int_{t}^{t} (t, M(t)) + \int_{t}^{t} \int_{xx}^{t} (t, M(t)) dt + \int_{x}^{t} (t, M(t)) M(t) \\
+ \int_{t}^{t} (t, M(t)) = \int_{t}^{t} (t, M(t)) + \int_{t}^{t} \int_{xx}^{t} (t, M(t)) dt + \int_{x}^{t} \int_{x}^{t} (t, M(t)) M(t) \\
= \int_{t}^{t} (t, M(t)) = \int_{t}^{t} (t, M(t)) dt + \int_{t}^{t} \int_{x}^{t} (t, M(t)) dt + \int_{x}^{t} \int_{x}^{t} \int_{x}^{t} \int_{x}^{t} (t, M(t)) dt + \int_{x}^{t} \int_{x}^$$

$$dB_{s}(t) = dV_{s}(t)$$

$$dB_{s}(t) = \rho dW_{s}(t) + \sqrt{1-\rho^{2}} dW_{s}(t)$$

$$\Rightarrow B_{s}(t) = V_{s}(t)$$

$$B_{s}(t) = V_{s}(t)$$

$$E_{s}(t) + \sqrt{1-\rho^{2}} dW_{s}(t)$$

$$= \rho V_{s}(t) + \sqrt{1-\rho^{2}} dW_{s}(t)$$

$$= \rho V_{s}(t) + \sqrt{1-\rho^{2}} dW_{s}(t)$$

$$= \rho V_{s}(t) + \sqrt{1-\rho^{2}} dW_{s}(t)$$

$$\Rightarrow B_{s}(t) + BA_{s}(t)$$

$$B_{s}(t) + A_{s}(t) + A_{s}(t)$$

$$E[B_{s}(t)] = O(t)$$

$$E[B_{s}(t)] = V_{s}(t) + \sqrt{1-\rho^{2}} E[V_{s}(t)] = V_{s}(t)$$

$$= \rho E[W_{s}(t)] + \sqrt{1-\rho^{2}} W_{s}(t) + \sqrt{1-\rho^{2}} E[V_{s}(t)] = V_{s}(t)$$

$$= \rho E[W_{s}(t)] + \sqrt{1-\rho^{2}} W_{s}(t) + \sqrt{1-\rho^{2}} [W_{s}(t)] + \sqrt{1-\rho^{2}} [W_{s}(t)] = V_{s}(t)$$

$$= \rho E[W_{s}(t)] + \sqrt{1-\rho^{2}} V_{s}(t) + \sqrt{1-\rho^{2}} [W_{s}(t)] + \sqrt{1-\rho^{2}} [W_{s}(t)] = V_{s}(t)$$

$$= \rho E[W_{s}(t)] + \sqrt{1-\rho^{2}} V_{s}(t) + \sqrt{1-\rho^{2}} [W_{s}(t)] + \sqrt{1-\rho^{2}} [W_{s}(t)] = V_{s}(t)$$

$$= \rho E[W_{s}(t)] + 2\rho V_{s}(t) + \sqrt{1-\rho^{2}} dW_{s}(t)$$

$$= \rho E[W_{s}(t)] + 2\rho V_{s}(t) + \sqrt{1-\rho^{2}} dW_{s}(t)$$

$$= \rho E[B_{s}(t)] + E_{s}(t) + 2\rho V_{s}(t) + \sqrt{1-\rho^{2}} dW_{s}(t)$$

$$= \rho E[B_{s}(t)] + E_{s}(t) + 2\rho V_{s}(t)$$

$$= E[B_{s}(t)] E[W_{s}(t)] - E[B_{s}(t)] E[B_{s}(t)]$$

$$= E[B_{s}(t)] E[W_{s}(t)] - E[B_{s}(t)] E[B_{s}(t)]$$

$$= \rho E[B_{s}(t)] E[W_{s}(t)] - E[B_{s}(t)] E[W_{s}(t)]$$

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$$= \rho E[W_{s}(t)] E[W_{s}(t)] E[W_{s}(t)] E[W_{s}(t)]$$

$$= \rho E[W_{s}(t)] E[W_{s}(t)] E$$