

 $\frac{d\vec{y}}{dt} = \frac{d}{dt}(z) = 1$

$$w = w + \alpha \nabla_{w} d$$

$$\nabla_{y} d = d \left[\frac{1}{2} \left(\hat{y} - \hat{y} \right)^{2} \right] = \frac{1}{2} \alpha^{2} \cdot \left(\hat{y} - \hat{y} \right) (1) = \sqrt{\hat{y} - \hat{y}}$$

$$\nabla_{y} d = d \left[\frac{1}{2} \left(\hat{y} - \hat{y} \right)^{2} \right] = \frac{1}{2} \alpha^{2} \cdot \left(\hat{y} - \hat{y} \right) (1) = \sqrt{\hat{y} - \hat{y}}$$

$$w = w + \alpha \nabla_{w} d$$

$$\nabla_{y} d = d \int_{0}^{1} \left[(\hat{y} - \hat{y})^{2} \right] = d \partial_{y}^{2} \cdot (\hat{y} - \hat{y}) (1) = [\hat{y} - \hat{y}]$$

$$\nabla_{y} d = d \partial_{y}^{2} \cdot d \partial_{y}^{2} = (\hat{y} - \hat{y}) (1) = [\hat{y} - \hat{y}]$$

$$\nabla_{y} d = d \partial_{y}^{2} \cdot d \partial_{y}^{2} = (\hat{y} - \hat{y}) (1) = [\hat{y} - \hat{y}]$$

$$\nabla \omega Z = \frac{2\vec{\lambda}}{2\vec{y}} \cdot \frac{2\vec{y}}{2\vec{x}} \cdot \frac{2\vec{\lambda}}{2\omega} = (\hat{y} - \hat{y})(1)(1) = (\hat{y} - \hat{y})(1)$$

$$\frac{2z}{2\omega} = 2\int \omega x + b = \chi$$

$$\nabla_{b} \chi = \frac{2\chi}{2g} \cdot \frac{2g}{2z} \cdot \frac{2z}{26} = (g'-g)(1)(1) = g'-g'$$

$$\frac{\partial^{2} f}{\partial y} = \frac{\partial^{2} f}{\partial y} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} = \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} = \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} = \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} = \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} = \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} = \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} = \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} = \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} = \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} = \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f}{\partial z} = \frac{\partial^{2} f}{\partial z} \cdot \frac{\partial^{2} f$$

$$\nabla J = \sum_{i=1}^{N} J(\hat{y}_{i}, y_{i}) \qquad \nabla_{w} J = \sum_{i=1}^{N} (\hat{y}_{i} - y_{i}) \times_{i} = \sum_{m} \chi(\hat{y}_{i} - y_{i}) \times_{i} = \sum_{m} \chi(\hat{y}_{i} - y_{i}) = \sum_{m} \chi(\hat{y}_{i}$$

