## Bishop 5.3

Maximizing likelihood function W.T. I:

## Bishop 5.4

$$= \sum_{n=1}^{N} ((x_n \ln(1-\epsilon))(x_n \omega) + \epsilon(1-n(x_n \omega))) + (1-\epsilon_n)\ln(1-(1-\epsilon))$$

## Bishor 5.26

$$\mathcal{N}_{0} = \sqrt{2} \sum_{k} \left( \sum_{i} 1_{ni} \frac{\partial x_{ni}}{\partial x_{ni}} \right)^{2} \leftarrow \Im ccosion \supset con + cxtbook$$

BANT = GEAR

= G (h' (an) Z Wconk)

+ h'(am) Z Warpower

$$\beta_{n,i} = \sum_{i} W_{i} i \alpha_{n} i$$

$$= \sum_{i} W_{i} i C_{i} \times_{n} i$$

$$= \sum_{i} W_{i} i \sum_{i} \gamma_{n} i \frac{\partial_{x_{n} i}}{\partial_{x_{n} i}}$$

$$= \sum_{i} W_{i} i \gamma_{n} i$$

$$\frac{1}{2} \int_{\mathbb{R}} \frac{1}{2} \int_{\mathbb{R}} \frac{1}$$

$$= \sum_{K} \propto u_{K} \left( \rho_{uK} S^{us} + \rho_{uK} \alpha^{us} \right)$$

$$= \sum_{K} \sim u_{K} \left( \rho_{uK} S^{us} + \rho_{uK} \alpha^{us} \right)$$