

## $P_{\rm e} = \frac{$ 错误接收的码元数 $-\frac{N_{\rm e}}{N}$ 传输的总码元数 $-\frac{N_{\rm e}}{N}$

接收的比特数在传输总比特数中所占的比例,

$$P_{\rm b} = \frac{$$
错误接收的比特数  $= \frac{I_{\rm e}}{I}$  传输的总比特数

- exp ( ) / (x, y) / (x, y) / (x, y)

$$I = \frac{\sum e(\sum wif_i(x,y))}{e(I-wo)}$$

$$e(I-wo) = \sum e(\sum wif_i(x,y))$$

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$$L(P, w) = \sum_{i=1}^{5} P(y_i) \log P(y_i) + w_1 \left( P(y_1) + P(y_2) - \frac{3}{10} \right) + w_0 \left( \sum_{i=1}^{5} P(y_i) - 1 \right)$$

$$\frac{-M-M-1}{2}$$

$$\frac{\lambda_{1}}{\lambda_{2}} \left( \frac{\lambda_{1}}{\lambda_{1}} \right) - \frac{\lambda_{2}}{\lambda_{2}}$$

$$\frac{\lambda_{1}}{\lambda_{2}} \left( \frac{\lambda_{1}}{\lambda_{2}} \right) - \frac{\lambda_{2}}{\lambda_{2}}$$

$$\frac{\lambda_{1}}{\lambda_{2}} \left( \frac{\lambda_{2}}{\lambda_{1}} \right) - \frac{\lambda_{2}}{\lambda_{2}}$$

$$\frac{\lambda_{2}}{\lambda_{2}} \left( \frac{\lambda_{2}}{\lambda_{2}} \right) - \frac{\lambda_{2}}{\lambda_{2}}$$

$$\frac{\lambda_{1}}{\lambda_{2}} \left( \frac{\lambda_{2}}{\lambda_{2}} \right) - \frac{\lambda_{2}}{\lambda_{2}}$$

$$\frac{\lambda_{2}}{\lambda_{2}} \left( \frac{\lambda_{2}}{\lambda_{2}} \right)$$

$$\min_{w,b} \quad \frac{1}{2} ||w||^2$$
s.t.  $y_i(w \cdot x_i + b) - 1 \ge 0$ ,  $i = 1, 2, \dots, N$ 

