$$O_{E} = A'(net_{E}') = A'(\sum_{j=1}^{m+1} w_{E_{j}}' y_{j}) = A'(\sum_{j=1}^{m+1} w_{E_{j}}' A(net_{j}))$$

$$O_{E} = A'(\sum_{j=1}^{m+1} w_{E_{j}}' A(\sum_{i=1}^{m+1} w_{i}) A(net_{j}))$$

2.3.4 Product unit NNS

, weighted product instead of sum of input signals

·advantageous, if couplings between input variables occur

- old summation unit blu. hidden and output layer:

2.3.5 Gradient descent learning roles

· gaal: minimize an error fort- denoting the difference blu. desited and predicted output di - oi