

\* Acceleration / Retard. is modelled by everylus. 1 Effective Synapse -> larger lucight -Stronger signal. \*! Weights are multiplicative factors of 4P. in Total Input (7) -> TWMMN I = W, X, + W2 x2 + I = / wix; \* To generate final ofpy, (I) sum I Passed to l'Activation, Transfer, Squash func.) Releases ofp y= \$ (I) A Common is Thresholding funch. In this, if O =threshold value (T) = 0,  $y = \emptyset$   $\left(\sum_{i=1}^{\infty} w_i x_i - 0\right)$ - 7/p Ling! Thresholding

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Or Step funch. (Heavy Side funch) Meuron on -Other Activation func.s -Signum/Quantizer Lunca (I) = +1 , I>0 -1 1750 (I) Signoidal funch :- Continuous tunch varies blu asymptotic values 0 kl Ø(I) = 1 + p-aI X = Slope parameter adjusts abrupt-ness of funch as it changes b/n two asymptotic values. \* Signoidal functes are différentiable.

Hyperkolic tangent function 5 To \$\Q(I) = \tanh(I)\$ \* Can produce re values. al Brasic Duit \* 1st model (1943) -) no learning just basic building block. W-) vary
HP fixed 20=1.