with chinew model with a hard threshold dassification 1) hi near model for does it ice to on o: undergrand explosion × 2 XI 1: earch-quake. 2 3 4 0 U X2 = 7, -0.540 X2 = W1×1+  $\times_2 - \times_1 + 0.5 \times_0 = 0.$ (2-2) + 0.5x1 = 0.5 > (2, 2)(4.1) It parameters? why 3 = X2 X1 X0 W2 W. WTOWN. T (Wo Xo + W1 X1 + W2 X2) not differentiable perceptron learning Rule (== Stochestic GU) wi-wi+d.(1)-3) × Xi g== y. Wi ← Wi case!: g=0, y=1. wit ← W1+ pos. casez. wil < w, + nej. g=1, g=0 ouses:

```
W_0 = 0.5 W_0 = 0.5 W_2 = 0.5 W = 0.1
    (12.2.1) (\times 0.5 + 2\times 0.5 + 2\times 0.5 > 0 > 1 = 4.
    (1.3.3.1) (x0.5 + 3x0.5 + 3x0.5 > 0 -> | = Y
   (1,4.1,0) 0.5\times1+0.5\times4+0.5\times1>0 >1!=Y.
             W_0 = 0.5 + 0.1 \times (0.0 - 1) \times 1 = 0.4

W_1 = 0.5 + 0.1 \times (0.-1) \times 4 = 0.1
              W2 = 0.5 + 0. | x (0-1) x | = 0.4
                      0.4x1+0.1x5+0.4x0=0.9>0>1<>4
  (15.0.0)
          Wo= 0.4 + 0.1 x (0-1) x/ = 0.3
          W_1 = 0.1 + 0.1 \times (0-1) \times \overline{5} = -0.4
          W_2 = 0.4 + 0.1 \times (0-1) \times 0 = 0.4
5(12.2.1) 0.3\times1+-0.4\times2+0.4\times2. >0 >1 = 4.
6 (1.3.3.1)

7 (1.4.1.0)

0.3x1 + -0.4x4 + 0.4x1 \times 0 \Rightarrow 0 = 0 \text{ error conveyagy}

8 (1.5,0,0)

0.3x1 + -0.4x5 + 0.4x0 \times 0 \Rightarrow 0 = 0.
6 (1,3.3.1)
                    0.3 + 10-0.4 / + 0.4 / 2 = 0
                         \chi_2 = \chi_1 - 0.75
         "Artificial Intelligence: A Modern Approach" by
             stront. Russell, Peter Norvie.
     check: section 18.6.3 (p725, third Edition)
figure 18.16
```