

* KUSOWCOP AMOUS	Haca de uma Redo Adaline
$x_1 x_2 +$	$E(\omega) = 0$
1 1 1	n wo
1 0 -1	(X) WI (Y) WE BE A MADE
0 1 -1	(X) wi
00 -1	y = y - im
	Jan Jacon
Resource:	(eso week michigan)
20 cmg	0 9219 -
E = Z [t(p)	-4(p) (a) we b - (a) w = (1+9/2)
P = 1	2
E=[1-(1.wo	+1,w1+1.w2)]2+ [-1-(1.w0+1.w1+0.w2)]+
T-1-(1-wo-	+0.w1+1.w2]2+ [-1-(1.w0+0.w1+0.w2)]2
	(1 + 80 00 / 9(NO X)
E = (1-wo-wi-	$-\omega_2)^2 + (-1 - \omega_0 - \omega_1)^2 + (-1 - \omega_0 - \omega_2)^2 + (-1 - \omega_0)^2$
E = (wo+w1+w2-1	1)2 + (wo+w++1)2 + (wo+w++1)2 + (wo+1)2 (0)
	3 10,000 1000
	to de mínimo:
Calculo do por	
Calailo do por	S Cours Condage - v=0
	0=22 -> apokaga raja 2 2
<u>∂</u> = 2(w0+w1+w2-	$-1) \cdot 1 + 2(\omega_0 + \omega_1 + 1) \cdot 1 + 2(\omega_0 + \omega_0 + 1) \cdot 1 + 2(\omega_0 + 1) \cdot 1$
$\frac{\partial E}{\partial E} = 2(m_0 + 2m_1 + m_2 - m_1 + m_2 + m_2 + m_1 + m_2 +$	-1).1 + 2(wo+w1+1).1 + 2(wo+w2+1).1 + 2(wo+1).1 +2w2-2+2w0+2w1+2+2w0+2w2+2+2w0+2
<u>∂</u> = 2(w0+w1+w2-	-1).1 + 2(wo+w1+1).1 + 2(wo+w2+1).1 + 2(wo+1).1 +2w2-2+2w0+2w1+2+2w0+2w2+2+2w0+2
$\frac{\partial E}{\partial w_0} = 2(w_0 + w_1 + w_2 - w_0)$ $= 2w_0 + 2w_1 + w_1$ $= 8w_0 + 4w_1$	-1).1 + 2(wo+wi+1).1 + 2(wo+wo+1).1 + 2(wo+1).1 +2w2-2+2wo+2wi+2+2wo+2wz+2+2wo+2 1+4w2+4
$\frac{\partial E}{\partial w_0} = 2(w_0 + w_1 + w_2 - w_0) = 2w_0 + 2w_1 + w_1 + w_2 = 8w_0 + 4w_1$	-1).1 + 2(wo+wi+1).1 + 2(wo+wo+1).1 + 2(wo+1).1 +2w2-2+2wo+2wi+2+2wo+2wz+2+2wo+2 1+4w2+4
$\frac{\partial E}{\partial E} = 2(m_0 + m_1 + m_2 - m_1 + m_2 + m_1 + m_2 + m_2 + m_1 + m_2 + m_2 + m_1 + m_2 + $	-1).1 + 2(wo+wi+1).1 + 2(wo+wo+1).1 + 2(wo+1).1 +2w2-2+2wo+2wi+2+2wo+2wz+2+2wo+2 1+4w2+4

resolum do:

200 = 400+201+402 (3)

~		
~~		
-	/	/
		. /

>>> para ponto de mínimo:

$$\frac{\partial \vec{E}}{\partial w_0} = 870 \sqrt{\frac{\partial \vec{E}}{\partial w_0}} = 470 \sqrt{\frac{\partial \vec{E}}{\partial w_0}}$$

· · I ponto do minimo.

Calculo do ponto de mínimo do erro quadatico:

resource do sistema:

Substituindo em (I)

Wo = -3 wi (5)

tomando se (I)

$$2 w_0 + w_1 + w_2 = -1$$

$$2 \left(\frac{3}{2} w_1 \right) + w_1 + w_1 = -1$$

$$-3w_1 + 2w_1 = -1$$

$$-w_1 = -1 \Rightarrow w_1 = 1$$