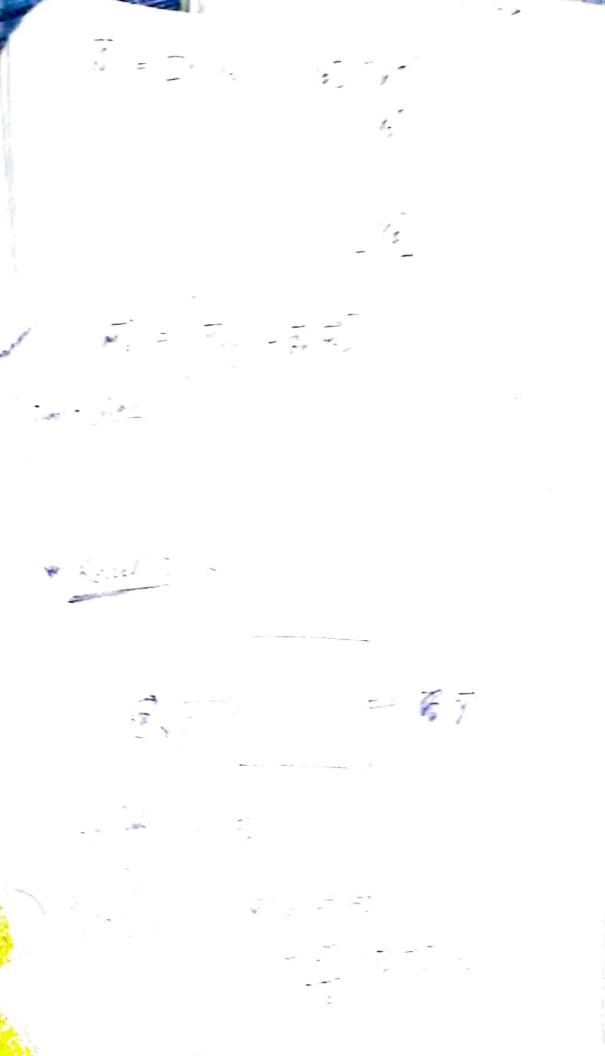
energy furtion P(nx -3 -nx) = 1+ exa(- DEX/T) In clombi condition in which the visible to more one cloth orto the specific state in which determine by environment. In free - 1 emoney cord" in which all nonon are allowed to operate feely D WK = 7 (5K - 5W) i + K. 3/2 - denotes constation rounon x 8 3 Ses - co-Netion 4/12 more + & i with the N/W is its free more Ciordi

* Credit - assignment Problem: 1. Temperal credit assignment Prod. 2. Structural . * Memery '-1. When - tom memory 2. Long - lown memory 1. short - term is comfilation knowledge refresenting the count state of anotherwest is called Enabledge street in the short some me is and in , so the is used to enfelote the chart term mental. Long time minuy refused to Kindle Gland i high mandi -11 The Allowing chi-

1. The money is destrolated. .. Earth the Structure suy patien your of are personally properly the same Amende in a wood a state from I will arroy is were some of some in the desirable is now there was any with the way have a come, the was accounted to the second there we were where in the maning which the manufacture of the

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* Learning with teacher (seferised learning) Rein forces medicing course for sized

1) Single Royer Perception (SLP) Jufied (mici) a function of he desired of h 11,0) - (i) refrestate 1: { xii), dii): i=1,2,3, -- m} V(1) = [x,(1) 1201 - - Ym/1)] In meral rounded of water and the influence of a constant that contrate the in adjustment to the comption of. to the Startistical variation in her waster of the N/w. with the

Fallowing frient. of nuron senofice 21. 2) The adjustioner to the scraptic with in system van or made en continuers Cons 3) Costion - wt. one cone sample fraisol long. ment model nural mode described in fig is call adaptive filler . 9/3 offertier consists of two continuous fracers which invalues Comfudation of two signof and off denoted. by you that is produced in response to the or element to the strongler weekin Rive or even simus Linated by ecity saloftine frican ! which invalue defutant of adoption DI. of newson in occardance to ideflet Atom some signeds.

$$y(i) = y(i) = \sum_{k=1}^{\infty} \omega_{k}(i) \mathcal{M}_{k}(i)$$

$$y(i) = \hat{\chi}(i) \mathcal{B}(i)$$

$$e(i) = d(i) - y(i)$$

$$(inconstrained of timization technique

for finite

$$\mathcal{C}_{ost} \text{ function:}^{\perp}$$

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To minumic the Cost function of \$(3) with

To minumic the Cost function of \$(3) with

expect to 3. The necessary and the often

of time this cood" is \$\forall \equal (3^*) = 0

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\frac{1}{2} \frac{2}{2} \frac{

\$(3(m+1)) < \$(3(m)) W(n) - old value of with vari is (moi) - updated valor of with vach Methods of Steepest Descent !-J= D & (B) in this method the successor adjustmen Afted to the at weet I are in the din of Steefeet descent, that is in a director officitie to the gradient weter (g). ((mi) = 3(n) - n f(n) tre constant water Called stop wer or Leaving pole format. 1 (17) - .. 77 Flm)

first order Taylor Series of from wation, $f(n_0 + h) \cong f(n_0) + f'(n_0)h$ $\xi(\vec{\omega}(n+1)) \cong \xi(\vec{\omega}(n))$ $+ g(k) \wedge \omega(n)$

 $\xi(3(n+1)) = \xi(3(n)) - \eta f(n)f(n)$ $= \xi(3(n)) - \eta || \vec{\xi}(n)||^{T}$

63/1/14

Nester! Method - love ide of the method in to minimize the quadrate faction office of the Cost function conver from 200). & (with, = = = = + 1 = / 200) 18 = 3 = - - - 5 "C" for the first of the same of t

$$\frac{3^{2}\xi(n)}{3^{2}(n)} = \frac{3^{2}\xi(n)}{3^{2}(n)} = \frac{3^{2}\xi(n)}{3^{2}$$

$$J(m) = \begin{cases} \frac{3e_1}{3\omega_1} & \frac{3e_2}{3\omega_2} & -\frac{3e_2}{3\omega_2} \\ \frac{3e_1}{3\omega_1} & \frac{3e_2}{3\omega_2} & -\frac{3e_2}{3\omega_2} \end{cases}$$

AT

$$=\frac{1}{2}\left[\tilde{e}(n)+\tilde{s}(n)\left(\omega(n+1)-\omega(n)\right)\right]$$

$$\left[\tilde{e}(n)+\tilde{s}(n)\left(\omega(n+1)-\omega(n)\right)\right]^{T}$$

=
$$\frac{1}{2} ||e(n)||^2 + e^{t}(n) \vec{f}(n) (\omega(n)) - \omega(n))$$

* Linear least square diller! -Ma Mila Milan E(3) = f(ew) e(n) = d(n) - R(n) 3(n) T/ e(m) = -x(m) J(n) = -x(n)W(m+1) = w(m) + (x [m) x (m)) - x [m) /do) - x [a) [i = w(m) + (x(m)x(m) x(m) d(m) (xT(n) Xn) (xton Xm)) was - Wins African (X'ros xcm) x/nidiol-wa (Dini) = (x1,n) x (x) / x /- 1 din)

$$y(n+1) = (x^{T}(n) x(n))^{-1} x^{T}(n) d(n)$$

$$\mathcal{V}^{(n+1)} = \left(\times^{T_{(n)}} \times^{(n)} \right)^{-1} \times^{T_{(n)}} den!$$

$$(n+1) = (X^{T}(n) X(n)) | X^{T}(n) d(n)$$

$$(n+1) = (x^{T}(n) x(n))^{-1} x^{T}(n) d(n)$$

$$(n+1) = (x^{T}(n) x(n))^{-1} x^{T}(n) d(n)$$

$$(n+1) = (X^{T}(n) X(n))^{-1} X^{T}(n) d(n)$$

$$n+1)=\chi'(m)\delta(n)$$

$$x^{\dagger}(n) = (x^{\dagger}(n)x(n))^{-1}x^{\top}(n)$$

$$x(n) = (x(n)x(n)) x$$

1/2/19

() = [N)

 $\left\{ \rho_{1} = \begin{bmatrix} 2 \\ 2 \end{bmatrix}, h_{1} = 0 \right\}, \left\{ \rho_{2} = \begin{bmatrix} -\frac{1}{2} \end{bmatrix}, h_{1} = 0 \right\}$

[B=[-2], +3 >0} { [4 = [-1], +=1]

$$\chi'(n) = (\chi'(n)\chi(n))^{-1}\chi^{T}(n)$$

Devila f w = [0 0) iferation - 1 a. -[0 0], 6 =0 y ossure 1 WAR = On + MEP 6no, 7 6n+ 8 E = and t - a a - Farth. (0,1,+6) - hadden ([0-][2]+0) = fu(0) = 1 C = 0 - 9 - 1