

One dation harf Cell Reduction harf Cell Phase of lower State Phase o higher phase higher One dation Phase of lower Onidation One dation Oxidation Zn(s) Zn(aq) (aq) (u (s) He electride $f_{2}(q) \rightarrow 2H^{\dagger} + 2\bar{e}$ Pt (5) H2 (9) (14) 2H+2E > H2(g) Him top ptcs) Sn2+ Sn4+ +de PE(5) 5n (18), 5n4+

Sn (44) , Sn (4) PE(5)

+ ne M(s) $\times \longrightarrow \times (ay) + ne^{-1}$ Sufference twen two half Eul = E andl

Potential & electrode depends on
-> Metal electrode
- Concentration of deet why to
- tempualure
Standard Reduction Potential
Gondilien
- Elsetrelyte Conlectation 1 M
atm gas premue if em lived
> lemp - @ 25°C
81d Redukon
Metal having high = to will lings Undergo
Metal having high (=) 3 std Reduction potential Reduction
Metal having low E' will Undergo Onedochios
E [alhod E
Eull = Ecatual - Eanude
E L amede
$Z_n \rightarrow Z_n^{2+} + 2\bar{e}$ $u^{2+} + 2\bar{e} \rightarrow u$
$a^{2+} + a^{-} = a$
139 - All Sand
-1 $\omega^{+} > \omega^{+} \geq r$
+/nf East = + PF Eastres - (for Early)
+ / n f = cell = + p f = cathed - (f n f = and) $m = 2$ $E cell = E cathed - E and$
= cell = E carled - E anos

Sty Hydrogen dutode -> Potential is Les for ande lange & temp @ IM H', lata gas H2 ESHE = Zen 2n(5) | 2n (ay | H) | H2/g) | P+(5) Euel = 0.76 V $E_{z_n^{2+}/z_n} = -0.76$ $E_{ul} = E_{udh} - E_{ano}$ $\frac{11}{2}$ $0.76 = \frac{1}{\text{CSHE}} + \frac{1}{\text{Can}} / \frac{1}{\text{Zm}}$ $\frac{1}{2} \frac{2}{2} \frac{2}{2} \frac{1}{2} \frac{1}{2} = -0.76$

1/2 F2 +1E >> F Cr6++SE -> Cr31 Ag+ +1e -> Ag 0.8V Fettle > Fet 0.77V and the am 0.34 Reducing byout $5^{4t}_{n}+\lambda e^{-} \rightarrow 5^{2t}_{n}$ 0.4 1 2+1 + 2= > H2(g) Cg2++2= - Cd(s) - 0.4V $\frac{2^{2r+2\bar{e}}}{L_i^{t+1}e} \xrightarrow{3} \frac{2^n}{4^n}$ - 0.76V -03-3./V Signifique of childrenical Series'-(1) Relative Oridizing / Reducing Power of Certain element (11) Relative acrish -To Cult solution can not be Stored in In (in) Calculate Std Reductions Potential of

Ce4+ 4e → Ce E= ?

in secutions D& D n is different they are not Same to we Con not deal with E directly you have deal with Dy Ce#+4e -> Ce 3G (4) Ce = 3G (3+) Ce + 3G (4+/ 65+ + nk E (4)/ce = + nk E (4)/ce + nk E (4)/ce + + 4 \(\xi \begin{aligned} & \frac{1}{2} & \frac{1} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \fra $E'' = 3 \times -2.48 + 1.61$ -1.45= -7.44 + 1.61 = -5.83

