EMF - Series

Zn/m/A)

Zn/m/A)

An/As/Li

etc.

Im sat

soln

v=0.

 $0 \times 10 \text{ Aire}$ 2n = 0.76 N

Reductive.

Uniformity

Reduction potential (Standard)

Zn - 9 oxidation E = 0.76

Potentin = 1/2nt

[Zn=22ng+2e] Reduction E gotendial. Zn2+ = = 0-76

Accordingly An SHE Pb +2ē -> Pb Reduction Lite > Lo - 3.5

NERNST EAN

16 = Free Energy Change

AG = Electrical Energy produced

DG=-MFE

Single Electrode + EMF of a cell

Reduction rexn.

Mn+ +ne -> Mis) -- (

As per thormodyanamic lay

the Free Energy Change

AG = AG°+RT In Q -(2)

9 = Rexn quotient

be lomed

$$\Delta G = AG' + RT \ln \frac{[m]}{[m^{n+}]}$$

Pure Solid = 1

Now

P - NFE =-hFE° + RT In / MH7 E = E° - RT In [mnt]

= = 96500

112 For EMF af + bB = 2 cc + D

a = Rexn Pdt Rexn React

For Example

Zn/Cn

zntiffich

zn + cn + - > zn + - cn (s)

Econ contrations.