## Lezione 8

(lO2 + 1e -> ClO2  $\frac{\text{ClO}_2}{\text{ClO}_2} + 20\text{PT} \longrightarrow \frac{\text{ClO}_3}{3} + 4\text{ET} + \text{H}_2\text{O}$ 2002 + 1/2 + 2014 - -> CLO2 - + CLO3 - + 1/2 - + H20

Blancata

15 -2 +3 0 ADHT + V2Os + HU -> 2V3+ +2Cl2+ SH2O (audorense acado)

H+

12e-si naluce oscioanne 12  $N_{205} + 4 + 10 + 7 = 2 \times 3 + 4 = 8 + 20$ 24  $20^{-}$   $-> 0 + 2e^{-}$ W20s + 4x+ 10H++40- -> 2V3+ + 5H20 + 2U2 + 4x-

-de-siosnda RD **EX**3 FeS +3NO3 +4H+ -> Fe3+ +504 +3NO +2H2O L-se-si ordar RID. -se-si osnola RID. +3e-sinduce ossidante S=+4H2O-7 SO4 +8e +8H+ ) 0881DAZLONE Fe2+ -> Fe3+ +se Fe<sup>2+</sup>+5= +4H<sub>2</sub>O -> Fe<sup>3+</sup> + SO<sub>4</sub>= +9e)+8H<sup>+</sup> || Rocesso globale W osndosiare Il hocesso di ridusione 0= +3e+4H+ -> NO +2H20 Fe<sup>2+</sup> + S= +4H<sub>2</sub>O +3NO<sub>3</sub> + 8x-+12H<sup>+</sup> -> Fe<sup>3+</sup>+ SO<sub>4</sub>=+9x-+8H<sup>+</sup>+
+3NO+6H<sub>2</sub>O (3)

$$C^{3}_{+} + 4H_{2}O \rightarrow CO_{4}^{2} + 3e^{-} + 8H^{+}$$

$$\times 3 \mid T + 3H_{2}O \rightarrow TO_{3}^{-} + 6e^{-} + 6M^{+}$$

$$2 \mid G^{3+} + 3I^{-} + 13H_{2}O \rightarrow CO_{4}^{2} + 3TO_{3}^{-} + 21e^{-} + 26M^{+}$$

$$11 \mid NO_{3}^{-} + Ne^{-} + 2H^{+} \rightarrow NO_{2}^{-} + H_{2}O$$

$$2C^{3+} + 6I^{-} + 26M_{2}O + 21NO_{3}^{-} + 42C^{-} + 42C^{+} \rightarrow 2CO_{4}^{2} + 6IO_{3}^{-} + 42C^{-}$$

$$+ 42H^{-} + 24NO_{2}^{-} + 21H_{2}O$$

EX5 9 NaBiO3 + 2 FeS + 4 NaOH - 2 Fe (OH)3 + 2 NaBiO2 OSSUMANTE Fr2+ -> Fe3+ +4e-8=+80H- -> 504= +8e- +4H20 Fert + S= + 80H - -> Fe3++ SOL= +9e-+4H2O BiO= + 2E+H20 -> BiO= + 204-RADUZIONE (2 Fe+ +25= + 16 04 - + 9 Bro3+lde-+ 9th20 -- 2 Fe3+ 2 SO4= +18e-+ 8th20 + 9 Bro3 + 1894-

Mod 
$$45$$
 pur =  $\frac{M^3 g}{232.6 g/md}$  = 0.486 md = md  $4$ gCl<sub>2</sub>

2+1+5-2 2+1+503 +4 SnO2 + 8+1-1 2+4-1 +1-2 +1-2 +4-1 +1-2 +1-2 +4-1 +1-2 +4-1 +1-2 +4-1 +1-2 +4-1 +1-2 +4-1 +1-2 +4-1 +1-2 V HNO3 = ? 65% m d = 1.20 g/mL  $\frac{12}{2003} + 8e + 10H^{2} > N_{2}0 + 8H_{2}0$   $\frac{18}{5024} = -7 Sn^{4+} + 2e^{-}$ 65.2g snCl4 lesal snely = 98.2% 2NO3-+8e-+10H++45n21 -> N2O+5429+45m+46  $ml_{eff} = \frac{65.29}{260.79 ml} = 0.250 ml_{effettive} = \frac{0.250 ml}{0.982} = 0.255 ml$ Nese -mlfeon 4:2 = 0.255 mod ! × mod +1003 => mod = 0.127 mod PIID =

 $md \ HNO_{3} PURO = 0.127 \ md$ 

m HNO3 PURO = 0.127mpl. 63.0 g/mpl = 8.00 g HNO3 PURO

 $M = \frac{8.00 \, \text{g}}{400 \, \text{m}} = \frac{8.00 \, \text{g}}{0.65} = 12.3 \, \text{g} \, \text{sol}. + 100 \, \text{g} \, \text{sol}.$ 

 $V = \frac{m}{dl} = > V_{mL} = \frac{12.3 \text{ g}}{10.3 \text{ m/m}} = \frac{10.3 \text{ m/m}}{10.3 \text{ m/m}} = \frac{12.3 \text{ g}}{10.3 \text{ m/m}} = \frac{10.3 \text{ m/m}}{10.3 \text{ m/m}} = \frac{10.3$ 

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