

CONCEPT: COULOMETRY

In terms of spontaneity the following correlations between the following variables can be made:

ΔG°	K	E°	ΔS°	Q vs. K	Reaction Classification	Cell Type
< 0	> 1	> 0	> 0	$Q < K$		
> 0	< 1	< 0	< 0	$Q > K$		
$= 0$	$= 1$	$= 0$	$= 0$	$Q = K$		

Electrolytic Cell: A non-spontaneous electrochemical cell that _____ electricity and so requires a battery.

Electron Affinity _____

Ionization Energy _____

