Material Shift

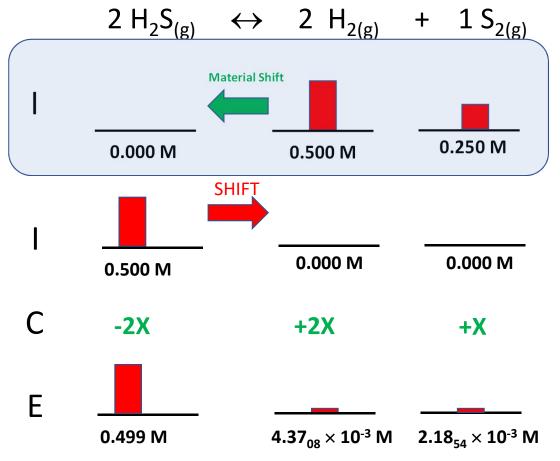
Performed BEFORE the I.C.E. Equilibrium Solutionwhen a strong/large equilibrium shift is predicted.

Converting Products to Reactants

Converting Reactants to Products

Makes equilibrium mathematics much more easily solved

How does a Material Shift work? Favors Reactants!



$$K_{\rm C} = 1.67 \times 10^{-7}$$

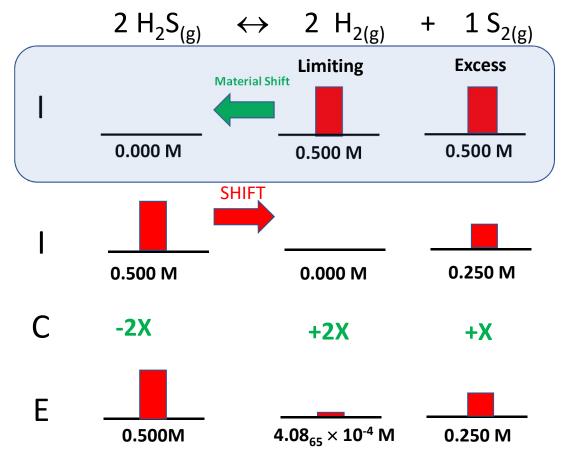
Material Shift is performed before the I.C.E. equilibrium problem is attempted.

Material Shift uses reaction stoichiometry (mole ratios) to convert products into reactants.

In this case, H_2 and S_2 initial concentrations are in a 2:1 ratio ...

...and all are converted into $\rm H_2S$

How does a Material Shift work? **Reactants!**



$K_{\rm C}$ = 1.67 × 10⁻⁷

Material Shift uses reaction stoichiometry (mole ratios) to convert products into reactants.

Favors

Material Shift is performed before the I.C.E. equilibrium problem is attempted.

In this case, H₂ and S₂ initial concentrations are NOT in a 2:1 ratio ...

0.500 M H₂ is "Limiting"...used up completely. 0.500 M S₂ is "Excess"leftovers.