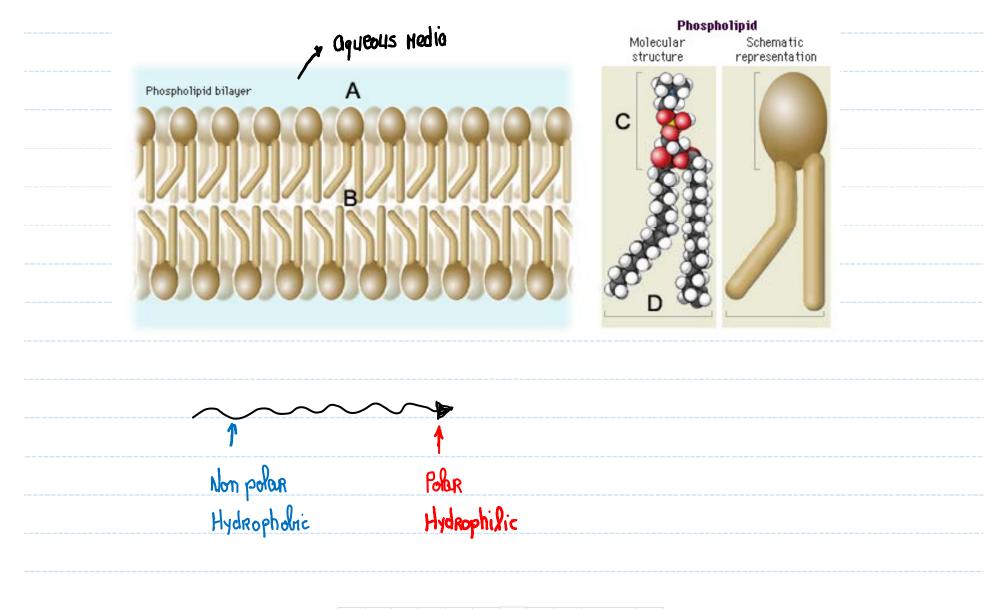
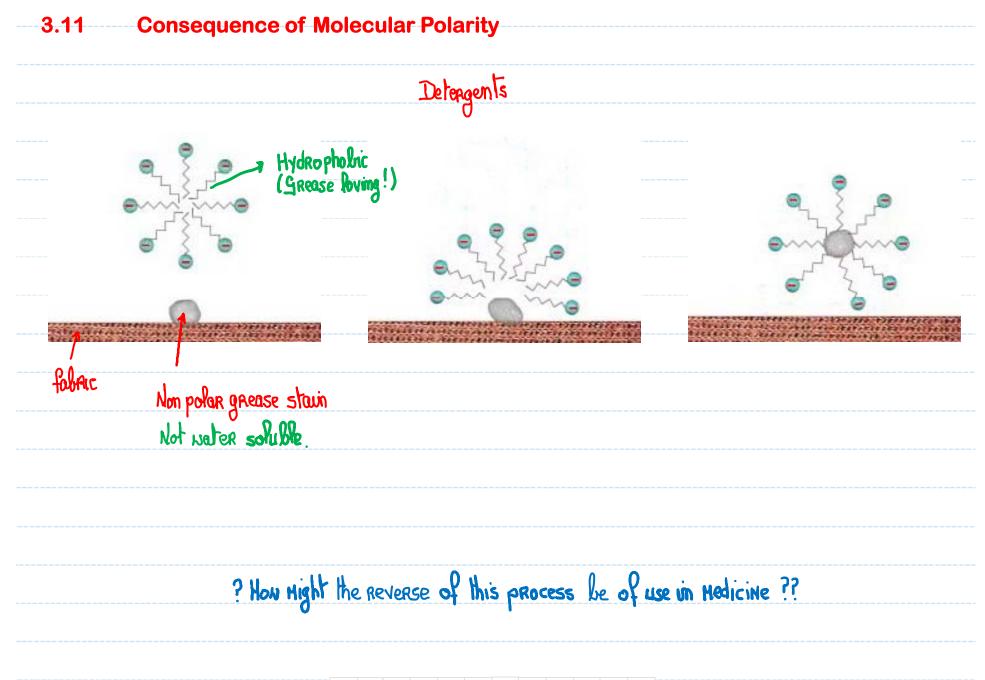


3.11 Consequence of Molecular Polarity



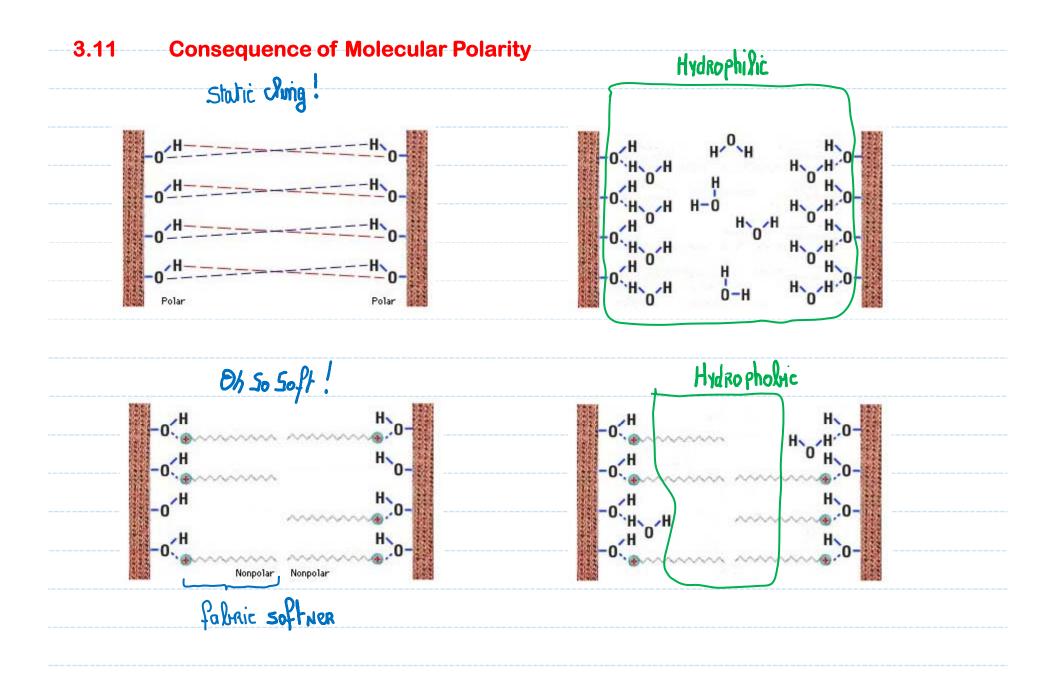
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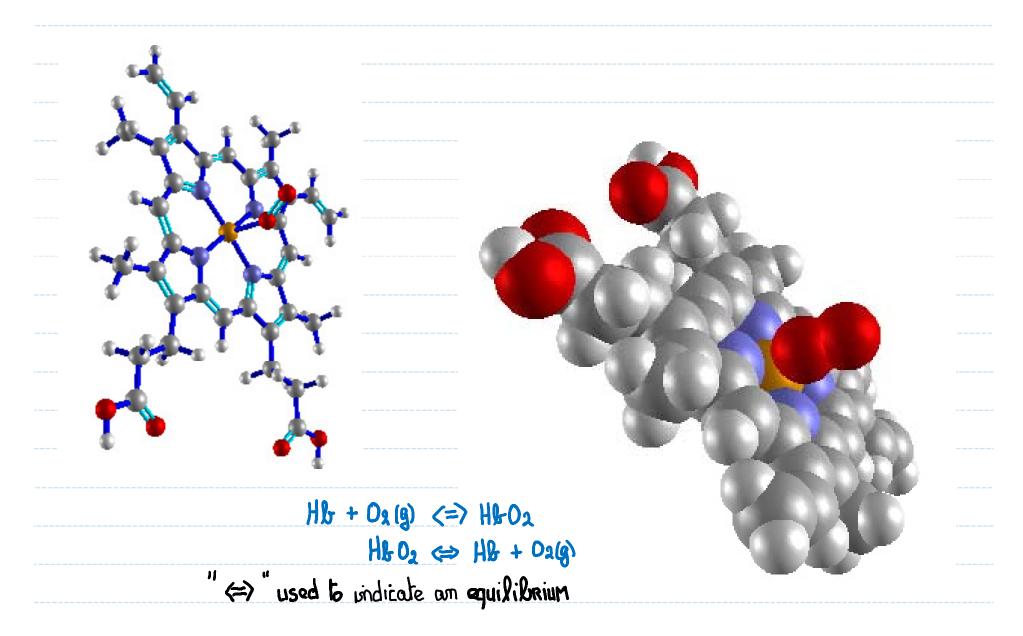


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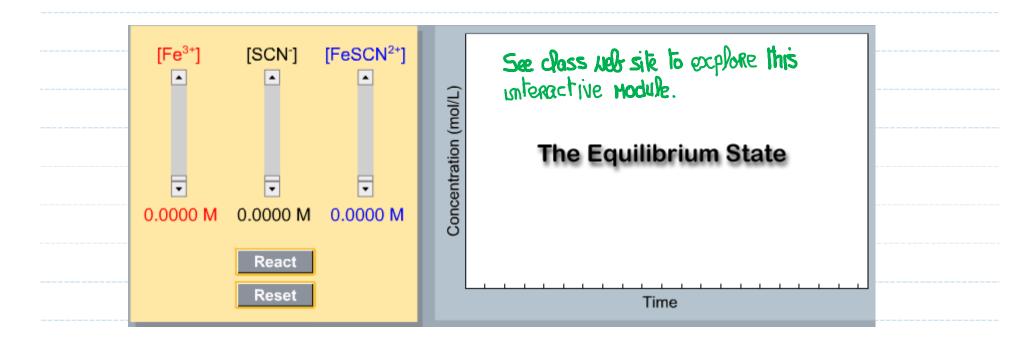




7.5 What Does It Mean to Say That a Reaction Has Reached Equilibrium



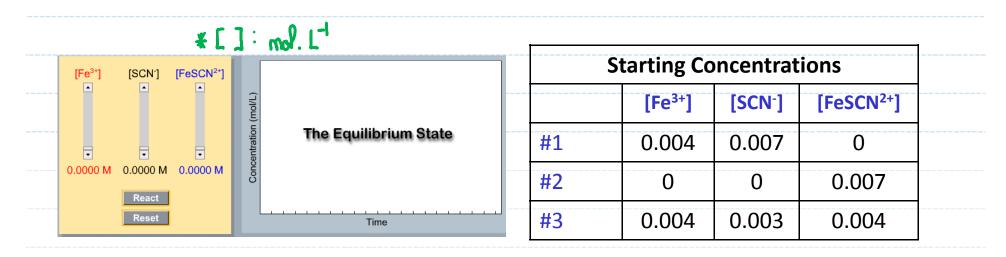
7.5 What Does It Mean to Say That a Reaction Has Reached Equilibrium



$$Fe^{3+} + SCN^{+} \iff Fe^{3+} + SCN^{+}$$

 $Fe^{3+} \iff Fe^{3+} + SCN^{-}$

7.5 What Does It Mean to Say That a Reaction Has Reached Equilibrium



Equilibrium Concentrations					
	[Fe ³⁺]	[SCN ⁻]	[FeSCN ²⁺]	[Fe ³⁺][SCN ⁻]/[FeSCN ²⁺]	[FeSCN ²⁺]/[Fe ³⁺][SCN ⁻]
#1	2.285 × 10 ⁻³	5.285×10 ⁻³	1.714 × 10 ⁻³	7.046 X 10 ⁻³	141.9
#2	4.333 × 10 ⁻³	4.333×10-3	2.666 ×10-3	7.042 × 10-3	142.0
#3	5.069 × 10-3	4.069× 10-3	2.930 X 10-3	7.040 10-3	142.0

[Fe³⁺][S[N⁻] = Constant [FeSCN²⁺] [FeSCN2+] = Constant [Fe³⁺][SCN⁻]

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7.6	What is an Equilibrium Constant Writing Equilibrium Expression			
ì	K = [Products]/[Reactants]	K = Equilibrium constant.		
2)	Nhen Nriting Equilibrium Expression.	sions (equations) pure solids and liquids do not appear		
1)	$HB + O_2 \iff HBO_2$	3) $A_g CP(s) \iff A_g^+ + CP^-$		
	$K = \frac{[H_{bO_{2}}]}{[H_{b}][O_{2}]}$	K = [Ag ⁺][[]		
2) N	2(g) + 3 H2(g) <=> 2 NH3(g)	4) $HF(aq) + H_2 D(P) \iff H_3 O^+ + F^-$		
$K = \frac{[NH_3][NH_3]}{[N_2][H_2][H_2][H_2]}$		K = <u>[H₃0⁺][F]</u> [HF]		
K=	$\frac{[NH_3]^2}{[N_2][H_2]^3}$	 ▲ < < ▲ < < → < < ✓ <		

