Surfictant flooding: scouting Calculations  $(s,c) = (s^*)^{hw} + M(c)(1-s^*)^{ho}$ MCC) = hu kro St = Sw-Scu.

kru ho I-Sou-Sorw What of Saw, Sorw, My and No are also dependent onc  $\frac{\partial f(s(0,C))}{\partial c} = \frac{\partial f}{\partial s^{*}} \frac{\partial s^{*}}{\partial c} + \frac{\partial f}{\partial c}$ 25x - - Sow + (Sw-Sow) (Sw + Sorm)

2C 1-Sow-Sorw (1-Sow-Sorm) = - Sew (1-Sew-Sorw) + (Sw-Sew) (Sew + Sura) (Sw-G-Sorn) Son + (Sw-Sow) Sorn 20 - (8\*) (S\*) (S\*) - (8\*) - (8\*) (S\*) (S\*) + M'(C)(1-5x) + no log(1-5x) M(c)(1-5x) - M'(O(S\*)"(LS\*)" + M(O)(S\*)"(1-S\*)" | nw log(S\*) - no log(+S\*) ((S\*)" - M(C) (1-5x)") M(c) = hw how + hwhow - hwhow kow

to be how to chew ho