Practical Pass Band Ripples 21 WFIR Low pros Filter stoleal how pass Filler Gain is oscielating & 1-sp Pass Band Repples

| Pass Band Repples | Stop Band? ------If input signal its teller has Friquencies in the range WE WEWS then 1. For ideal Filter the od signal will pass from wp to we (we included) and will be blocked from We to ws ( west we not included) 5 9 unctertainty at we due to discontinuity 9 2. La practical filta 9 We can not define the value of most signal.

For  $\{w_p \leq w_w \leq w_s\}$  erange Now we want Sp >0 iss >0 and [wp 1 ws] to be just a single point. or wp, ws as close as possible If we movies the length of the system, amplitude of order to 8p accounts adult are will then the oscillations due to 8p accounts adult are will 01 0 For large 18p = 0 Have except Sp at discontinuity Sover if we make 8p=0,8520 there will be oscillation at discontinuity



