







Passband fignal  $n(t) = a(t) \cdot cos \left[ w_c t + o(t) \right]$ amplitude phase frequency =  $a_c + \frac{doct}{dt}$ Analog Modulation: AM, FM (PM) 1. AM - amplitude modulation NAM (t) = Ac [ 1+ m. nos(t)] cos Wet → Double-sideband full-carrier DSB-FC envelope

tosiact

authal rignal time. domain domain: De Duc -uc o uc AM detector: Vin D T C ZR Vout as 1+m 2188(t) >0

fraul t I mus: 1) susceptible to make 2) requires very linear PA





