6 Ending ordlangue effekter, dynamik omrade, SNR, og former LP-Relanstraktions R. Item IIR-filter. - Discrete Amplitude LP-AA-filter Disorte Amplitude - lontinous time Q = Quantizations - Periodie H(2) = Variable + Coefficient Q 5/H = Time Q ADC = Variable Q (Competer) DAL = Time Q Variable Q: Time Q: Mister into N bit ADC => 2 Possible Values for x2 : Q-Step 1=(1)N at ADC output we have finite SNR SNR = 20 · log (Signal (RMS)) the SNR output of ADC is increased 6dB When N is intreased 1 SNR=6.02N+1.761B Quantizer which takes us from 2N - N Multiplication between signal and Coef. Introduces error [e[i] = box[i] - Q[box[i]] NO 2N Q - Of bo. X [h] Due to e Go the ordinar se slike 12 les 7 SNR is not infinite. rand down Road up, gradet ba = exact (a]X.od Abos N bits imple mentation Coefficient Q X(h) -> b.x(n) + a b.x(n) Afects pole/200 location. b+ Ab Exact a error You can make sensitivity analysis-> TLDR: The closer poles are the more sensitive they are to coefficient Q.