Equations * * Watch your Units
Derister: Bu=Fs o Ss [b or B] Sample Sample Greg (sampls) Size
To = MEM [s] (operation) Fine
2 Acceleraneter.
* same as thermister but multiply So by the # of dimensions laxis
Ex. 3D occul
BW = Fs = 3(5s)
3 Sand:
* Same, but multiply So by the channels
BW= +5 · 2(53)
L/R Channels (Steres)
Wideo:
BW = Fs . Hot components . No M. Ss
BW= F5. Hof components. Nom. Ss 3 for RGB Screen d'imensions
A have to find and add Audro BW To = (BWV + BW)
(DUV+PUA)

Piscrete Moving turage Eq y[n] = 0.5y[n-i] + x[n] + x[n-i] * needs to be initialized so at y[o] you have valid values for y[n-1] and x[n-i].

AD Converter

- · Range: 0 ... 2 -1
- · Resolution. $\Delta = Vange = Vr_4 Vr_-$ (quantization) # of steps 2^-1
 - · Output: Nade = Vin Vr_

At if your input Vin is outside of your Vref vange, then if will be Vref.

Ex. $V_{r_1} = 0.5 V$ $V_{r_4} = 2.5$ $V_{in} = 3 \rightarrow \text{answer is Nade at 0}$ $V_{in} = -2 V \rightarrow \text{answer is Nade at 0}$

to from Javanou - nound down

Modulation - you are multiplying → Orig = 3 + 2 sin (20t) + 8 cos (30t) = cos(100t) -mod= 2 2 1.5 0.5 30 70 50 loo -100 -20





