



































FLORIDA		
Interface type	Advantages	Disadvantages
Chopper- Stabilization	 Low noise: no aliasing, minimal number of noise sources Low front-end power – SNR not limited by capacitor size Suitable for discrete-component implementation 	 Requires additional filtering and ADC for digital output Requires large biasing resistors
Switch- Capacitor	 Robust DC biasing Good Linearity and accurate gain Easy to integrate more functions (ADC, force-feedback) Output can be digitized directly No low-pass filter needed 	 Higher noise – Noise folding, charge injection Large capacitors needed for low kT/C noise











BINVERSITY OF A Interface Circuit Design: Auxiliary Amplifier

Used in DC feedback loop within stage-2



	INVERSITY OF Experimental Results			
Chopping freq.	50 kHz ~ 1 MHz			
Gain	40 dB			
DC offset	<1 mV			
Sensor offset attenuation	>26 dB			
noise	24 nv/√Hz, chopping at 1 MHz (simulation)			
Power	330 μA × 3.3 V			
	Erroard Vie LASTED (SS 2004			

