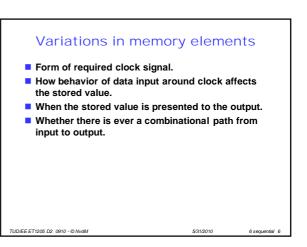
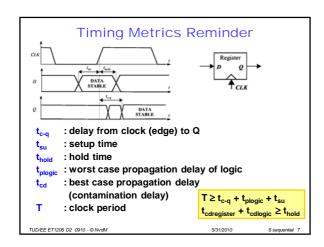
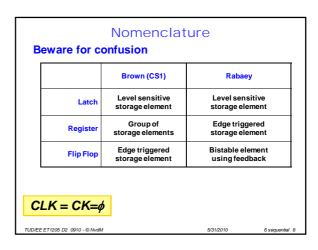
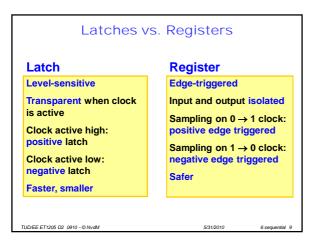


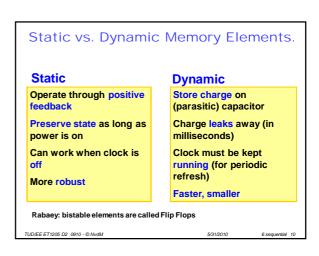
Memory elements Store a temporary value, remember a state Typically controlled by clock. May have load signal, etc. In CMOS, memory is created by: capacitance (dynamic); feedback (static). Also see http://en.wikipedia.org/wiki/Filp-flop_(electronics)



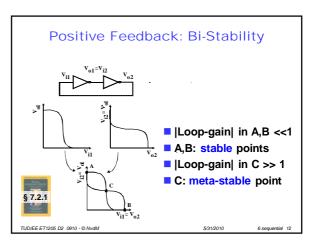


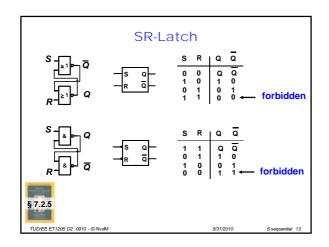


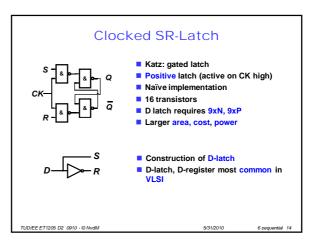


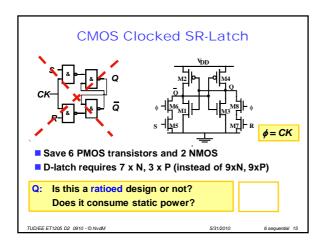


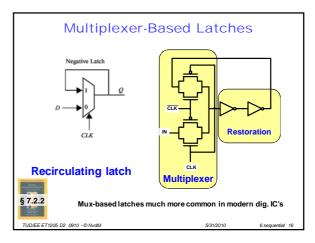


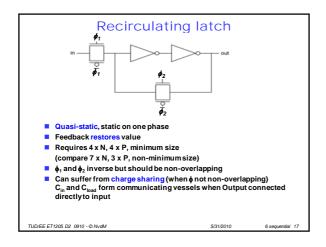


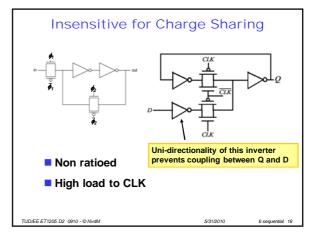


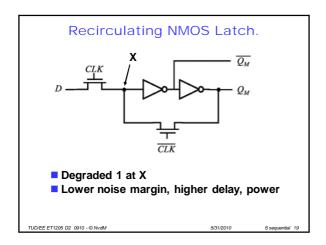


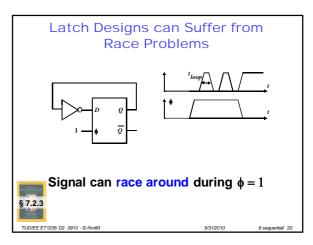


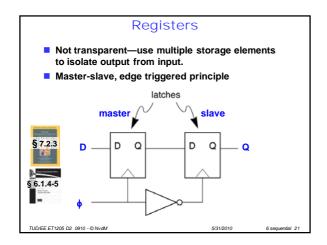


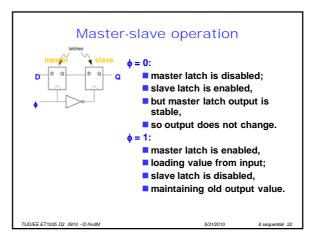


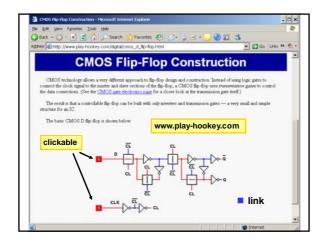


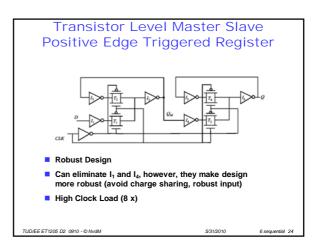


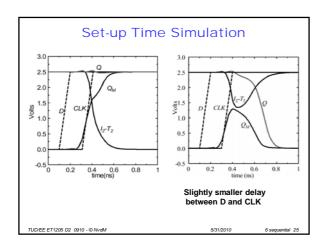


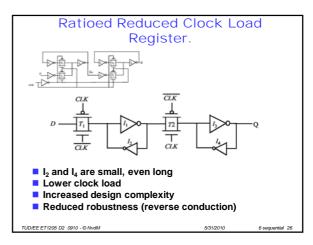


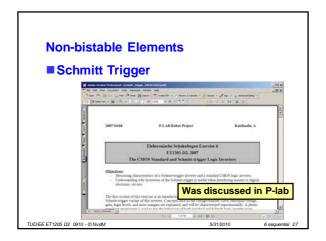


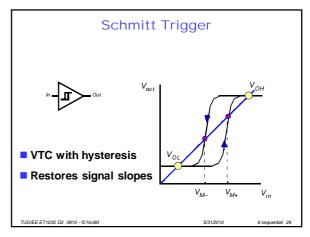


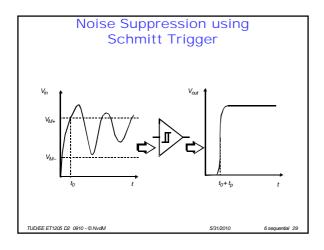


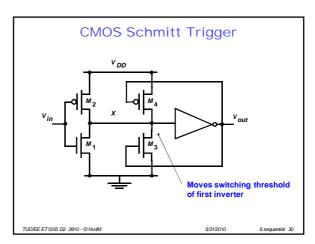


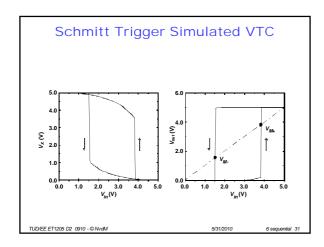


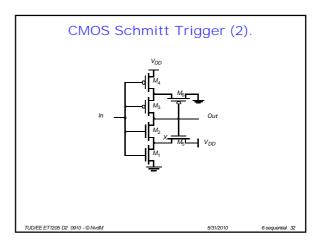












Summary Background Timing, terminology, classification Static Flipflops Latches Registers Dynamic Flipflops Latches Registers Non-bistable elements Schmitt Trigger