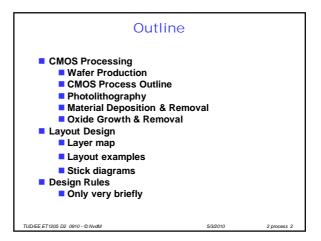
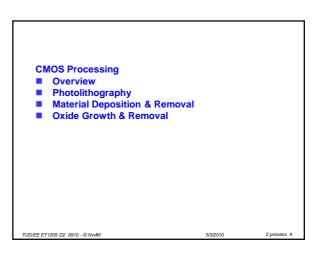
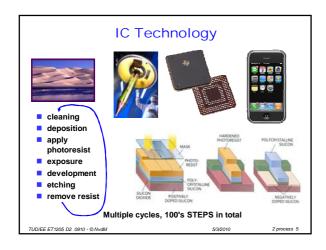
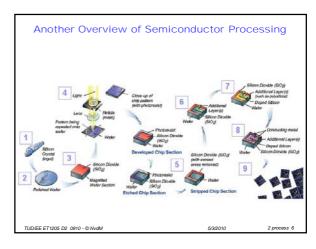
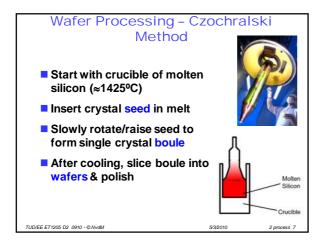
Part 2: Process Fundamental Technology Real men own fabs. W.J. Saunders III, Chairman and CEO of Advanced Micro Devices Inc. Building a new fab is like playing Russian roulette. When you build a fab, you hold the gun to your head, pull the trigger and wait three years to see if you're dead. Unnamed IC company executive. (Integrated Circuit Design, September 1996)

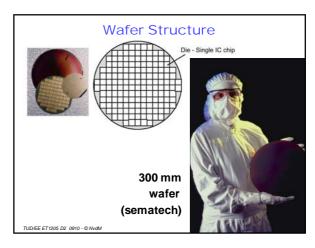


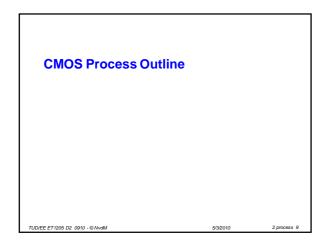


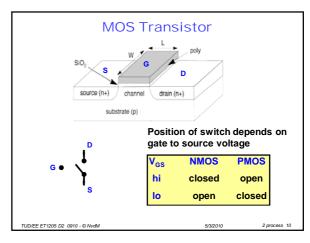


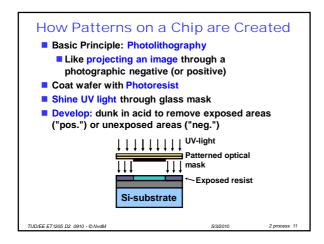


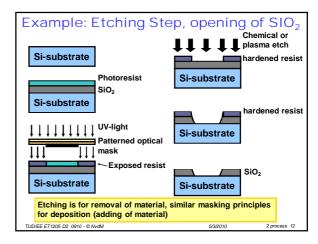


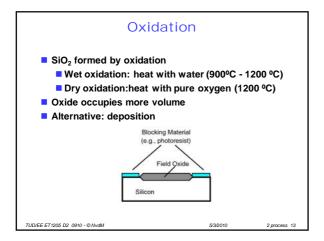


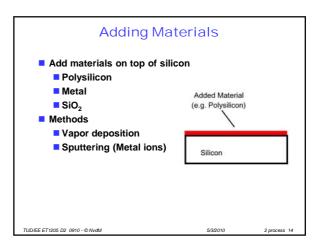


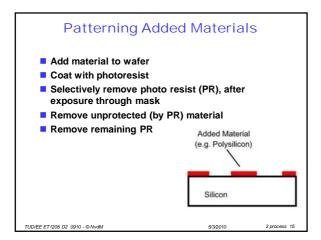


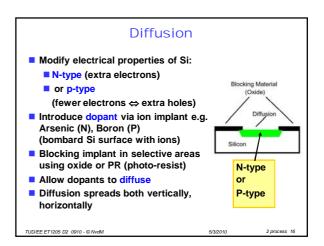


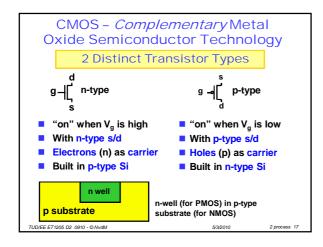


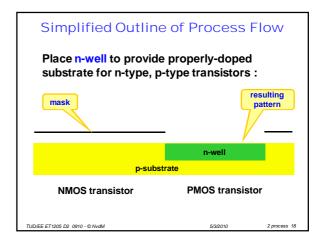


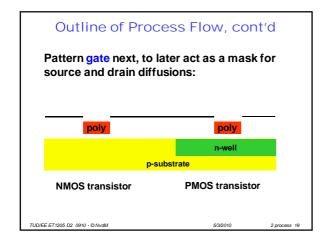


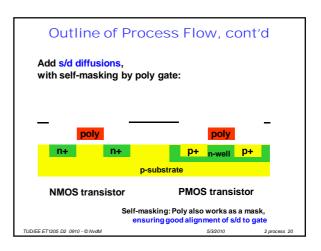


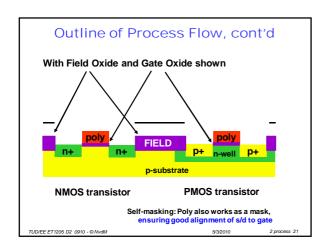


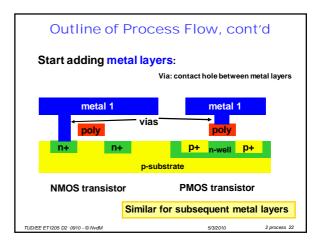


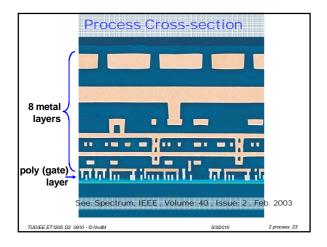


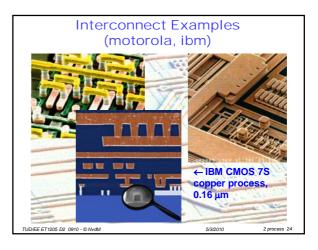




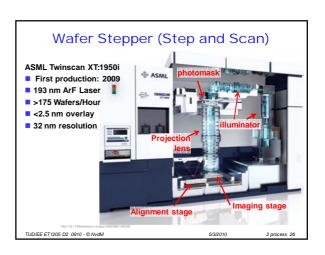


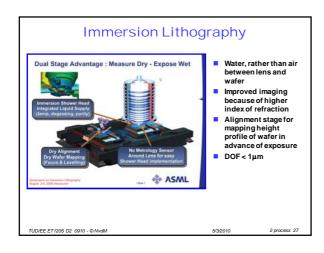


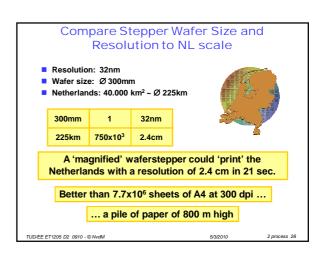


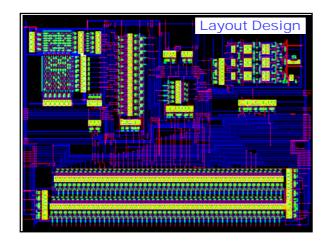


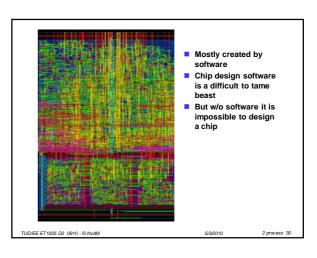


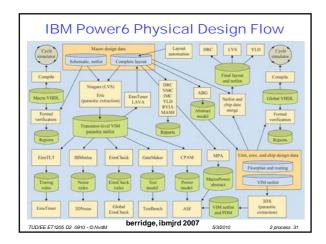


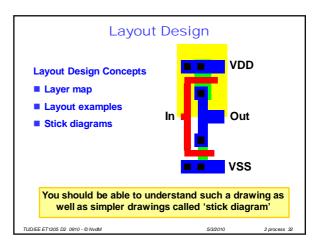


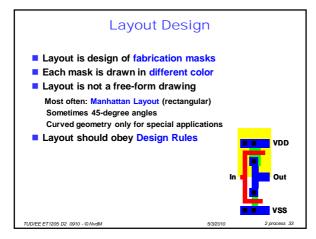


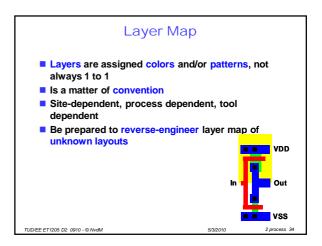


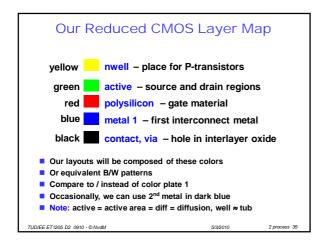


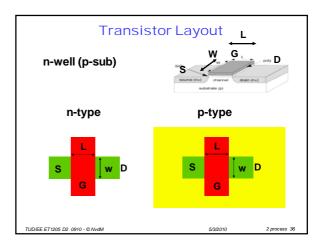


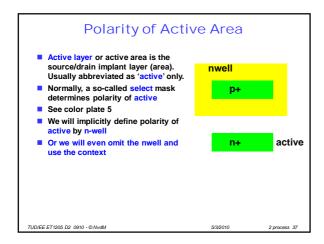


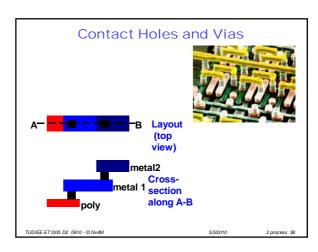


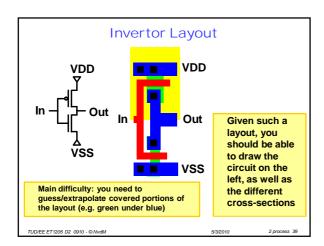


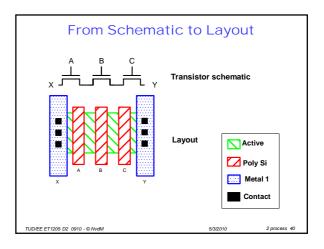


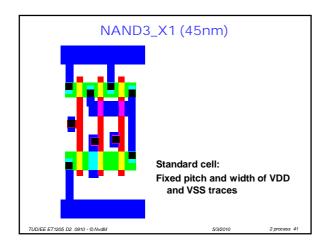


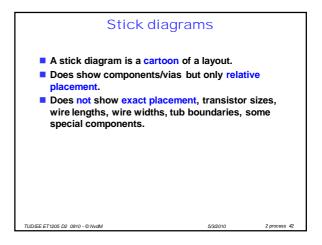


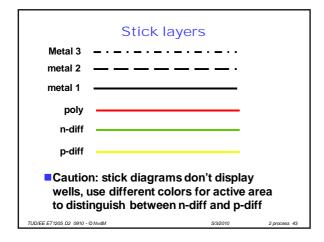


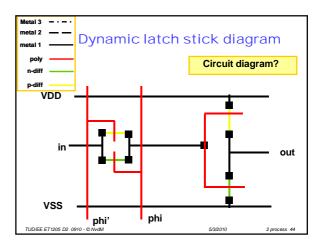












Design Rules The fabrication process will suffer from tolerances Chip features will have a practical minimum size to allow them to be fabricated reliably enough (with high enough yield) This is captured into a set of precise Design Rules Modern processes have terribly complex set of design rules as a compromise between flexibility and manufacturability We will ignore this subject But you will have to understand it during OP next year.

