



Process Modeling - TCAD
INTRODUCTION
SUPREM – Stanford University PRocess Engineering Module, 1977
ATHENA is Silvaco, Inc's. version of SUPREM. ATHENA is normally used in conjunction with VWF Interactive tools. These include DECKBUILD, TONYPLOT,DEVEDIT, MASKVIEWS and OPTIMIZER. DECKBUILD provides an interactive run time environment. TONYPLOT supplies scientific visualization capabilities. DEVEDIT is an interactive tool for structure and mesh specification and refinement, and MASKLVIEWS is an IC Layout Editor. The OPTIMIZER supports black box optimizations across multiple simulators. ATHENA is frequently used in conjunction with ATLAS device simulator. ATHENA predicts the physical structure that result from processing. These physical structures are used as input by ATLAS, which then predicts the electrical characteristics associated with specified bias conditions.
© April 30, 2014 Dr. Lynn Fuller, Professor Page 3















































