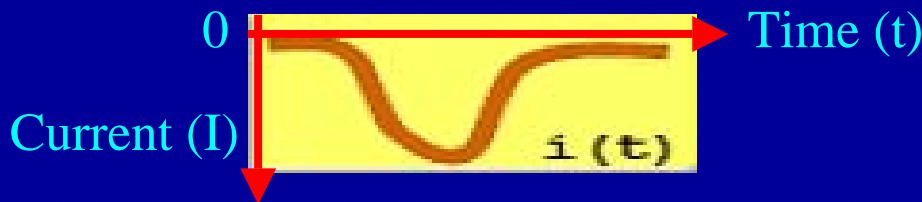


CCS Model Diagnosis

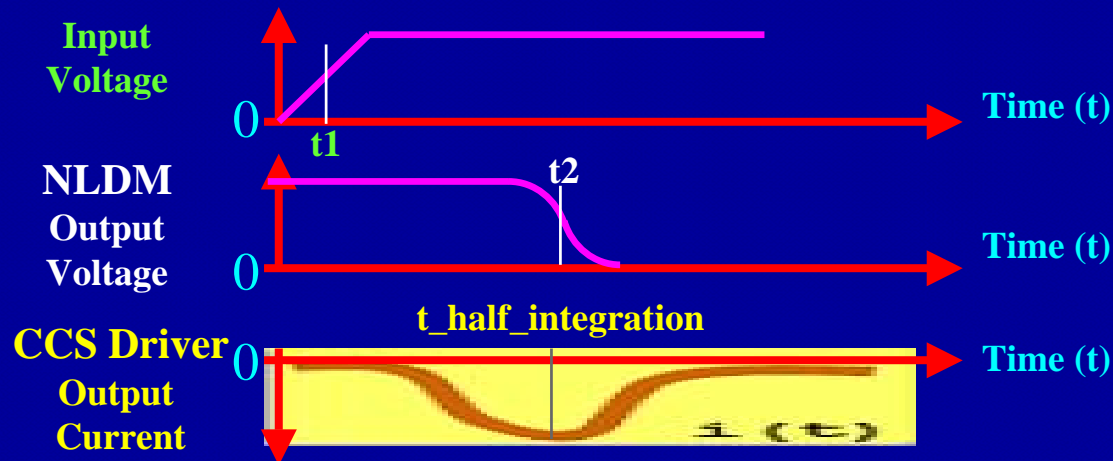
- ◆ CCS Receiver Model Consistency Check
 - Compare CCS' C1 and C2 with NLDM input capacitance
- ◆ CCS Driver Model Consistency Check
 - Compare CCS half-integration time with NLDM delay
- ◆ CCS Driver Model Integration Check



- $I = C * dV / dt \Rightarrow \int I dt / C = V_{dd}$
- Difference between $\int I dt / C$ and V_{dd} need be $< 5\%$

CCS Driver Model Diagnosis

CCS vs NLDM Consistency Check



- ◆ $NLDM_delay = t_2 - t_1$
- ◆ $CCS_delay = t_{half_integration} - t_1$
- ◆ Consistency can be checked by comparing CCS_delay with $NLDM_delay$, and reporting the difference.