

Quiz 2: Integration, fabrication, transistor dynamics, and simulation

Robert Dick

1 October 2009

1. Why would it ever make sense to use multiple chips on a printed circuit board instead of just fabricating a system-on-chip?
2. Describe the key repeated step in IC fabrication process.
3. Why do transistor gate capacitances change depending on operating region?
4. Why is analog circuit simulation a challenging problem?