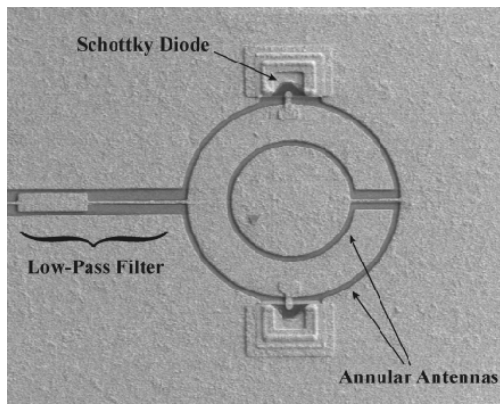
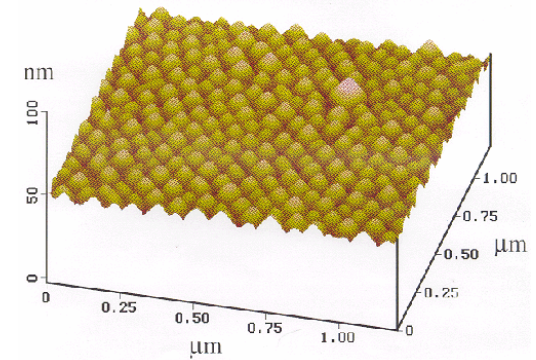


Microelectronics

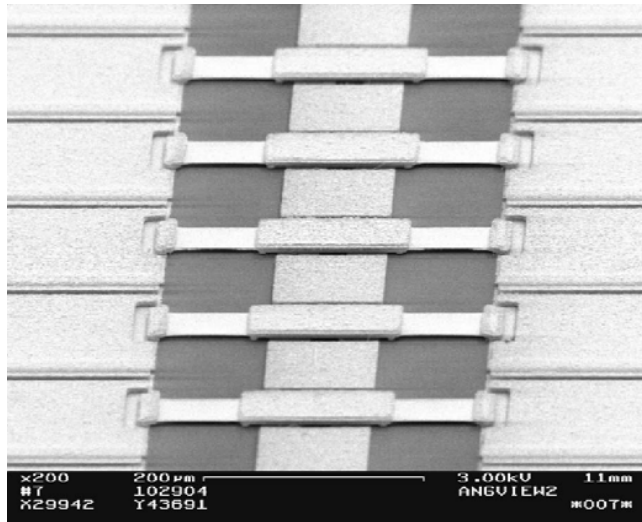


Nested Ring-Slot Antennas with integrated Schottky diodes.

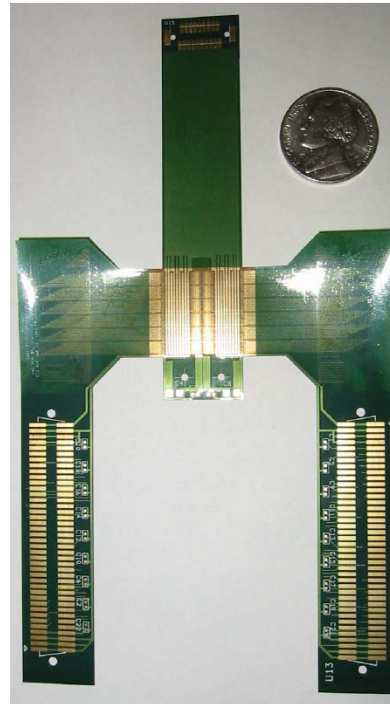
- Digital ICs
- Mixed-signal ICs
- RF circuits
- Solid-state devices
- MEMS



Self-assembled GeSi Quantum Dots.



RF-MEMS devices along a microwave transmission line.



Intel's Pentium 4 contains tens of millions of transistors.
Courtesy: Intel

Microelectronics – Faculty

- N. Scott Barker
- John C. Bean
- Travis Blalock
- Ben Calhoun
- Joe Campbell
- Boris Gelmont
- Avik Gosh
- Tatiana Globus
- Mool C. Gupta
- Lloyd R. Harriott
- Arthur Lichtenberger
- Michael L. Reed
- Mircea Stan
- Nathan Swami
- Robert Weikle

Microelectronics – Courses

- ECE 541/686 – Photonics (Fall) (Gupta)
- ECE 563 – Introduction to VLSI (Fall) (Calhoun)
- ECE 663 – Semiconductor Devices (Fall) (Harriott)
- ECE 666 – IC Fabrication Lab (Fall) (Swami)

- ECE 556 – Microwave Engineering I (Spring)
- ECE 652 – Microwave Engineering Lab (Spring)
- ECE 564 – IC Fabrication Class (Spring)
- ECE 587 – Introduction to Microsystem Design (Spring)
- ECE 587 – Wireless Circuits (Spring)
- ECE 686 – Fundamentals of Nanoelectronics (Spring)

- ECE 655 – Microwave Engineering II (every other Fall) (Weikle)
- ECE 736 – Advanced VLSI (every other Spring)
- ECE 753 – Electromagnetic Field Theory (every other Fall)
- ECE 786 – Nanoelectronics/Semicond. Physics (every other Spring)

- MSE 567 – Electronic & Optical Prop. (Fall) (Reinke)
- MSE 791 – Thin Film Growth (Fall) (Fitz-Gerald)