EECS 42 Intro. electronics for CS Spring 2003

Version Date 04/27/03

EECS 42 Introduction to Electronics for Computer Science

Lecture # 24 Current Flow in Silicon and N-MOS Devices

Handout of Wednesday Lecture.

A) Physics of current flow, resistance, resistivity

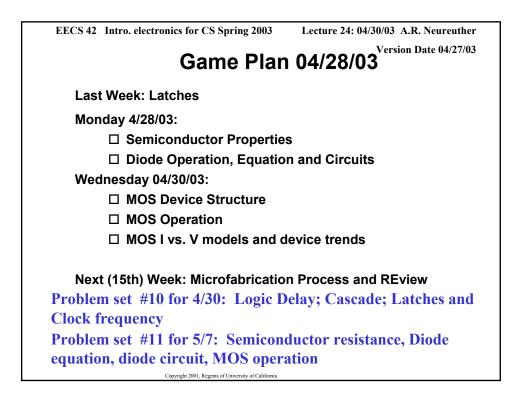
B) Charge transport in a sheet and velocity saturation

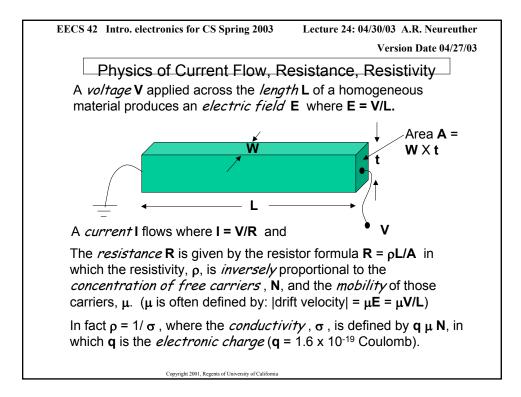
C) N-MOS Device Structure and Voltage Control

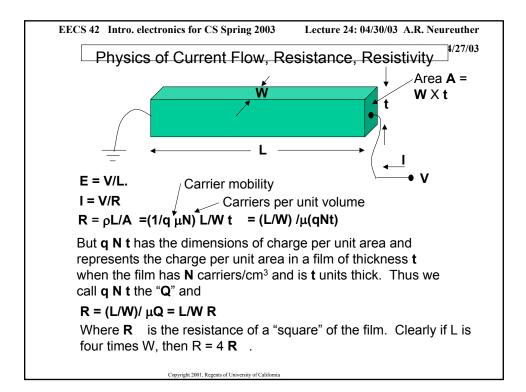
D) N-MOS I vs. V at low and high drain voltage Reading: Schwarz and Oldham, pp. 518-526

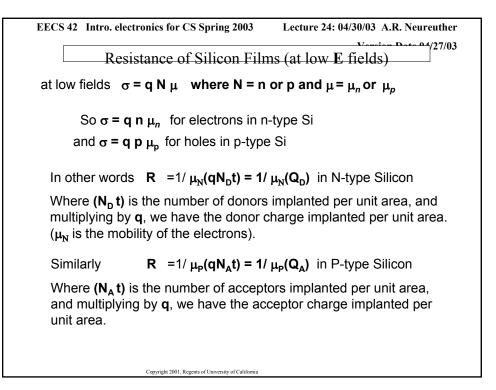
http://inst.EECS.Berkeley.EDU/~ee42/

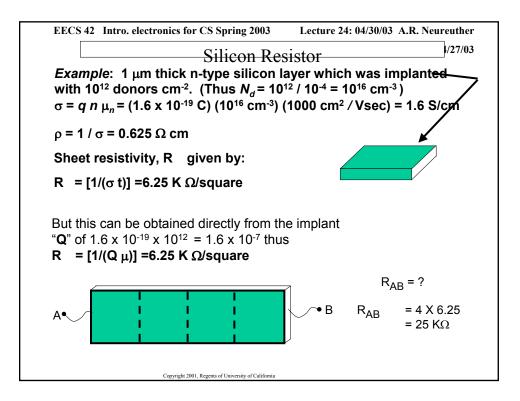
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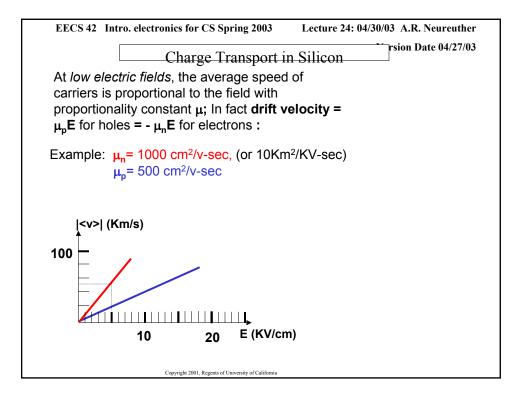


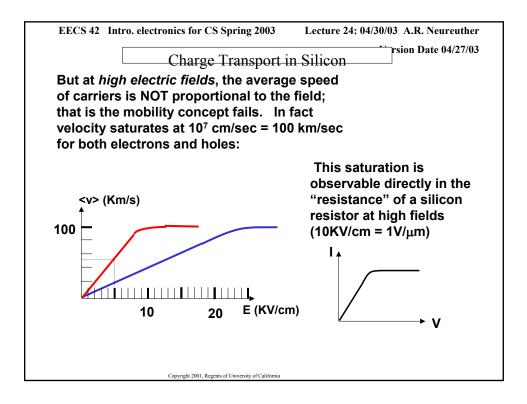


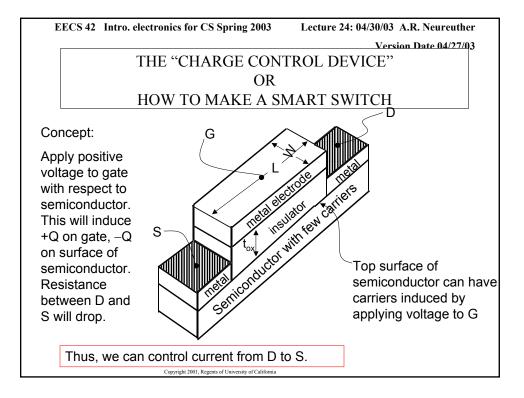


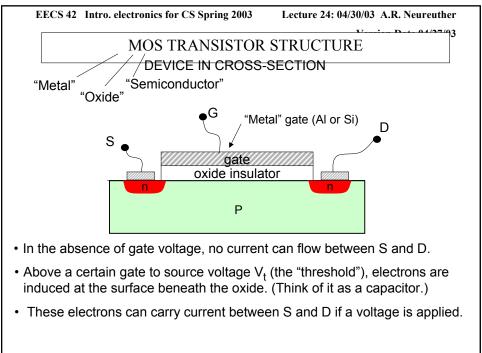












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