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Lecture 1 Introduction to Semiconductors and Semiconductor

semiconductor physics and discuss some semiconductor devices like junction diodes (a 2-electrode device)

and bipolar junction transistor (a 3-electrode device). A few circuits illustrating their applications will also be described. 14.2 CLASSIFICATION OF METALS, CONDUCTORS AND SEMICONDUCTORS On the basis of conductivity

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type of semiconductor is called N type, and electrons are the majority carriers in this type of semiconductor. Similarly, holes are the majority carriers in a semiconductor doped with acceptors and it is termed P type. If both types of dopants are present, the one present in higher concentration determines the "type" of the semiconductor.

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PHYSICS OF SEMICONDUCTOR DEVICES PHYSICS OF SEMICONDUCTOR DEVICES by J. P. Colinge
Department of Electrical and Computer Engineering University of California, Davis C. A. Colinge Department of Electrical and Electronic Engineering California State University KLUWER ACADEMIC PUBLISHERS
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the "blue book" series (the Modular Series on Solid State Devices) by Neudeck and Pi-erret, now regrettably out of print but still valuable as a compact introduction to semi-conductor devices. This book has broader aims, and thus a different set of topics. In Chapter 1 have chosen to discuss only two semiconductor devices, the junction diode

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Principles of Semiconductor Devices L Length m Ln Electron diffusion length m Lp Hole diffusion length m m Mass kg m0 Free electron mass kg me* Effective mass of electrons kg mh* Effective mass of holes kg n Electron density m-3 ni Intrinsic carrier density m-3 n(E) Electron density per unit energy and per unit volume m-3 n0 Electron density in thermal equilibrium m-3

Principles of Semiconductor Devices - UFPR

1 MOSFET Device Physics and Operation 1.1 INTRODUCTION A "eld effect transistor (FET) operates as a conducting semiconductor channel with two ohmic contacts " the source and the drain " where the number of charge carriers in the channel is controlled by a third contact " the gate. In the vertical direction, the gate-

MOSFET Device Physics and Operation

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