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silicon (Si) is the most widely used material

in semiconductor devices. Its combination of

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semiconductor material has an electrical

conductivity value falling between that of a

conductor “ such as copper, gold etc. “

and an insulator, such as glass. Their

resistance decreases as their temperature

increases, which is behaviour opposite to

that of a metal. Their conducting properties

may be altered in useful ways by the

deliberate, controlled introduction of

impurities ("doping ...", Physics 468 and flow

of charge carriers in the semiconductor

devices are within the solid itself, while in the

earlier vacuum tubes/valves, the mobile

electrons were obtained from a heated

cathode and they were made to flow in an, 2

## MOSFET DEVICE PHYSICS AND

## OPERATION Gate Source Drain

Semiconductor substrate Insulator Gate

junction Substrate contact Conducting

channel Figure 1.1 Schematic illustration of a

generic field effect transistor. This device

can be viewed as a combination of two

orthogonal two-terminal devices, Learn and

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