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What is SOLID-

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What does SOLID-
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mean? Lecture 1

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electronic devices

Lecture - 1

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Solid state device

tutorial 1 (

Introduction) A

simple guide to

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components. HDD vs

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SSD - What is the
difference?

Transistors, How do
they work ?

Explaining Solid State

Disks Metal Oxide
Semiconductor (MoS)
Structure 108N. MOS
Capacitor: Energy
band diagram,
accumulation,
depletion, and
inversion, threshold
voltage ~~Lesson 1~~

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~~Voltage, Current,
Resistance~~

~~(Engineering Circuit
Analysis)~~ Solid State
Electronics | Carrier
Concentration |

Electrons Tutorial:

How to design a
transistor circuit that
controls low-power
devices Intrinsic And
Extrinsic Semi

Conductors 1

Module 0 -

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~~\u0026 Circuits |~~

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Circuit Analysis: Part

1- DC Circuits

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A modern and
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iii
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The term "solid state" became popular in the beginning of the semiconductor era in the 1960s to distinguish this new technology based on the transistor, in which the electronic

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Electronic devices occurred in a solid state, from previous electronic equipment that used vacuum tubes, in which the electronic action occurred in a gaseous state. A semiconductor device works by controlling an electric current consisting of electrons or holes moving within

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a solid crystalline
piece of
semiconducting ...

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- Wikipedia

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Homework Set 1

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1,3,4,12, Chap. 2 #

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2,5 Assigned 8/22/02

Due 8/29/02 Q: Why

study electronic

devices? A: They are

the backbone of

modern technology 1)

Computers. 2)

Scientific instruments.

3) Cars and airplanes

(sensors and

actuators).

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to accurately predict
the diode solid state
device electronic
device in which
electricity flows
through solid
semiconductor

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crystals silicon gallium
arsenide germanium
rather than through
vacuum tubes the first
solid state device was
the cats whisker 1906
in which a fine wire
was moved across a
solid crystal to detect
a radio signal solid

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Electronics Chap. 1

Instructor: Pei-Wen Li

Dept. of E. E. NCU 4

Introduction Solid-

state electronic

materials: □

Conductors,

semiconductors, and

insulators, A solid

contains electrons,

ions, and atoms,

$\sim 10^{23}/\text{cm}^3$. □too

closely packed to be

described by classical

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Newtonian

mechanics.

Extensions of

Newtonian

mechanics:

Solid-State

Electronics

solid state devices

Oct 04, 2020 Posted

By Dean Koontz

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semiconductor

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equipment using
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