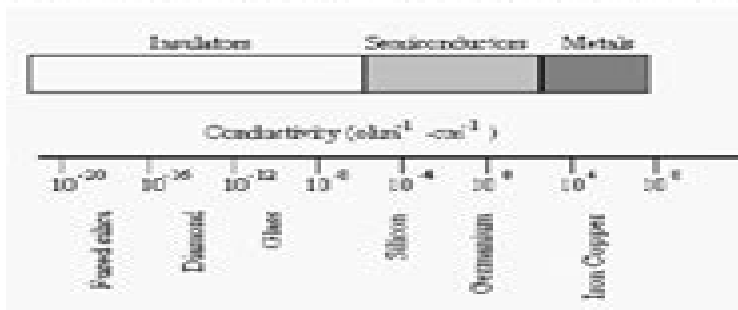


ECE1007 - Optoelectronics

Dr. Usha Kiran K

Semiconductor

Insulator < Material-Conductivity < Metal



The conductivity can be varied by

Optoelectronics

- Electronic devices which involves interaction with light
- Example: LED

-Emission
-Absorption

- *Focusses on the physics of the interaction of photons with semiconductor materials.*
- Semiconductors absorb/emit

Compound Semiconductors

S Ashworth



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angle of chamfer is 30 or 45 with the base of the nut due to chamfering an arc is formed on each vertical face and a circle is
formed on the top surface of the nut

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web a hex key also hex wrench allen key and allen wrench or inbus is a simple driver for bolts or screws that have heads with
internal hexagonal recesses hex keys are formed from a single piece of hard hexagonal steel rod having blunt ends that fit
snugly into similarly shaped screw sockets the rods are bent to 90° forming two arms of unequal

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web head designs that overlap both bolts and screws are the allen or torx heads hexagonal or splined sockets these modern designs span a large range of sizes and can carry a considerable torque rusty hexagonal bolt heads the american institute of steel construction 13th edition steel design manual section 16 1 chapter j 3 specifies the

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web the formula used to calculate the bolt area is as follows bolt area $ba = 0.7854 d^2 n$ in this formula d represents the bolt diameter in inches and n represents the number of threads per inch the bolt area is calculated by subtracting 0.9734 divided by the threads per inch from the bolt diameter and then squaring the

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web proximate joint and bolt stiffness is outlined in paragraph 5 0 the slope of the force angle of turn relationship can be represented by the following equation where k_b bolt spring rate lb/in k_c joint spring rate lb/in

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