Differentiate, distinguish, compare and explain what is the main differences between intrinsic and extrinsic semiconductors. Comparison and Differences.

Differences between Intrinsic and Extrinsic Semiconductors

1. IntrinsicÂ are pure semiconductors. ExtrinsicÂ are impure semiconductors.
2. In first, conductivity is poor. In second the conductivity is large.
3. In intrinsic semiconductors,Â the number of electrons and hoes are equal. In Extrinsic semiconductor, n-type electrons are in majority whereas in p-type holes are in majority.
4. In intrinsic Fermi energy level lies at the center of forbidden energy gap. In other, n-type Fermi level lies near the bottom of conduction band and in p-type near the top of valence band.