

Subject - Physics / Faculty - Science / By - VKS

Topic: Wave Front - It is defined as the surface on which the fronts of all waves diverging from a source lie, is called its wave front. It may be also defined as the locus of all points where all the particles vibrate in the same phase simultaneously.

Types of wave front - It is of three types mentioned below -

- ① Spherical wave front
- ② Cylindrical "
- ③ Plane "

① Spherical wave front - A spherical wave front is formed when the source of wave is a point source. It is shown in fig. (1) below

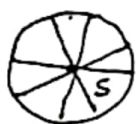


Fig - (1)



Fig - (2)

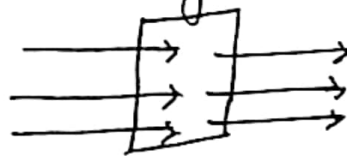


Fig - (3)

② Cylindrical Wave front - A cylindrical wave front is formed when the source of wave is a line source. It is shown in a fig. (2) above

③ Plane Wave front : At an infinite distance from the source of any shape, the wave front is plane then it is called plane wave front. It is shown in a fig. (3) above

E-Content No. (1)

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