

Distinguish, differentiate, compare and explain what is the difference between Interference and Diffraction. Comparison and Differences.

Comparison and Difference between Interference and Diffraction

1. Interference takes place between two separate wave fronts originating from two coherent sources. Diffraction takes place when secondary wavelets originate from different points of the same wave front.
2. In the interference, the fringe width may or may not be the same. In diffraction, fringes are not of the same width.
3. In the interference, all maxima are of the same intensity while in diffraction, maxima are of varying intensity.
4. In the interference, the minimum intensity regions are usually almost perfect dark whereas, in diffraction, the minimum intensity regions are not perfectly dark.

Steady Run