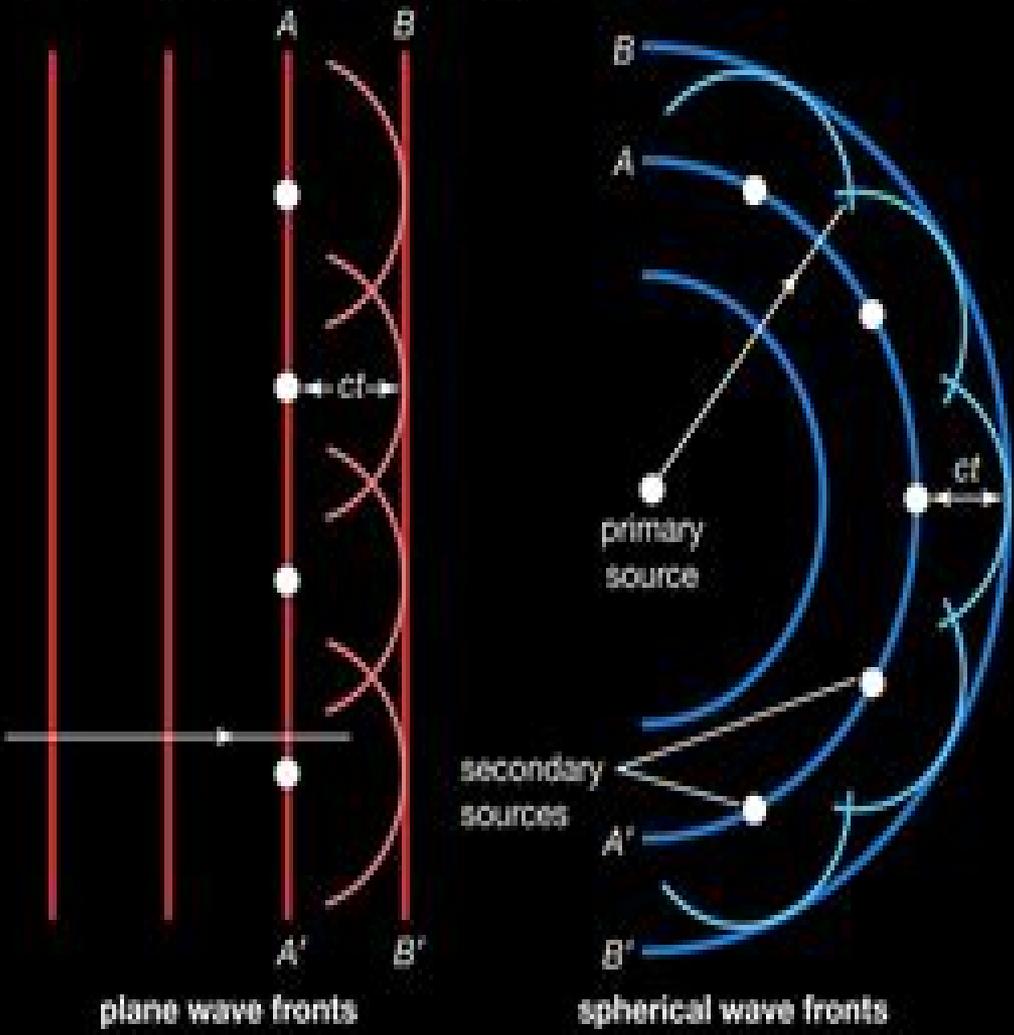


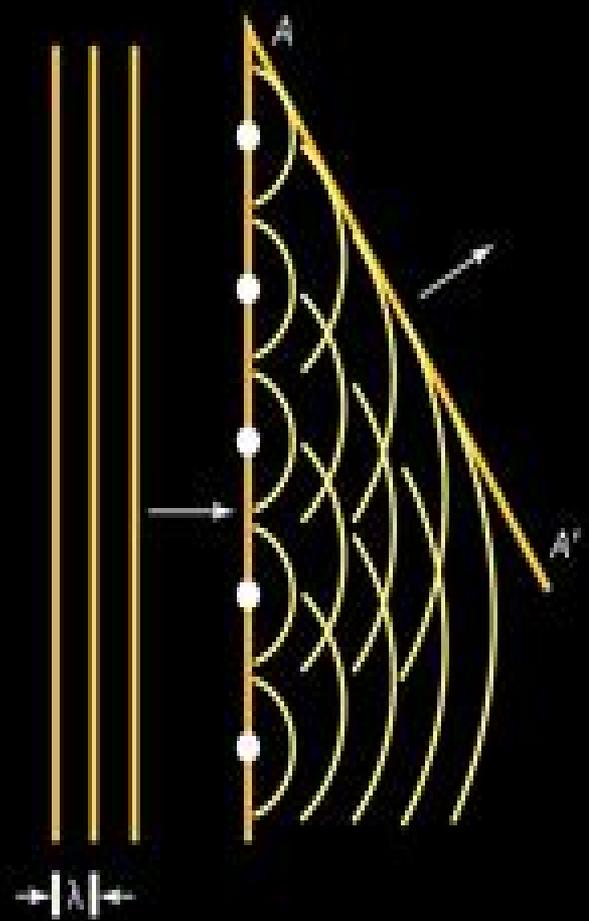
Huygens' principle

Huygens' principle applied to both plane and spherical waves



Each point on the wave front AA' can be thought of as radiating a spherical wave that expands out with velocity c , traveling a distance ct after time t . A secondary wave front BB' is formed from the addition of all the wave amplitudes from the wave front AA' .

Huygens' construction of a diffracted wave from a transmission grating



The wave front is constructed by adding spherical waves from each slit of the grating. The wave emitted at a given slit is delayed by one full cycle with respect to the wave from an adjacent slit.

Huygens Principle Diffraction Guide

Annelies Wilder-Smith



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