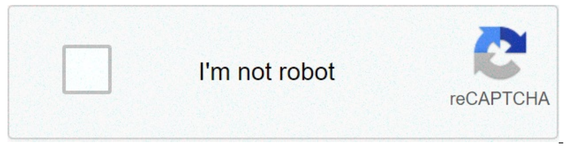

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By the end of this section, you will be able to: discuss the single slit diffraction model. Figure 1. (a) Single diffraction slit model. Monochrome light passing through a single slot has a central maximum and many small and Maxima dimmer on both sides. The central maximum is six times higher than the one indicated. (B) The shows Drawing Maximum light central and dimmer and subtle Maxima on both sides. The light that passes through a single slit forms a reticle of diffraction differ from those formed by double cracks or diffraction patterns. Figure 1a shows a single slit diffraction model. Note that the central maximum is larger than those on both sides, and that intensity decreases quickly on both sides. On the contrary, a diffraction lattice produces uniformly spaced lines that slowly likes on both sides of the center. The single slit diffraction analysis is illustrated in Figure 2. Here we consider light coming from different parts of the same slot. According to HuygensÃ ¢ s principle, each part of the wavefront in the slot emits wavelet. These are like rays that leave in phase and head in all directions. (Each radius is perpendicular to a wave front of a wavelet.) Assuming that the screen is very far from the size of the slot, direct rays towards a common destination are almost parallel. When traveling straight, as in Figure 2a, they remain in phase, and a central maximum is obtained. However, when the rays travel to an angle Āœ compared to the initial direction of the beam, each run a distance different to a common path, and can arrive in or out of stage. In figure 2b, the beam from the bottom runs away the distance of a wavelength ĀžÂ »farther than the radius from above. So a radius from the center travels the distance ĀžÂ »/ 2 away from the left one, comes out of stage, and interferes destructive. A radius from slightly over the center and one slightly above the bottom also cancel each other. In fact, every ray from the slot will have another destructive interferiscation, and a minimum of intensity occurs in this corner. There will be another minimum at the same corner to the right of the light accident direction. Figure 2. Figure 2a see that light that passes through a single slot is diffracted in all directions and can interfere constructively or destroyed, depending on the corner. The difference of paths for rays from both sides of the slot is seen bea d sina i. Figure 3. A single slit difflation intensity chart shows the maximum central maximum and more intense than those on the sides. In fact, the â €

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