Classification of diffraction effects Monday, September 6, 2021 11:26 PM Ro rading with Let's take round hole with reoning plane Ro For oatins of in Fresuel Zone: $\mathcal{D}_{n} = \int_{\Gamma+\Gamma_{0}}^{\Gamma} u \lambda \int_{\Gamma}^{\infty} \int_{$ $R = \sqrt{2} \lambda$ Lid's assign 2d, distance at which the hole will open only 1st Fresuel 2one. $Z_{J} = > R_{,} = R_{0} = > 2J = \frac{R_{o}}{J}$ Non pe spæle behind de høle can be divided juto several areas. 0 2 << 21 Ro 2 << 2 d 2 = 2 d R = 127 << 1297 = Ro In this area the hole opens many I. I derent Fresuel's Zonez, It means vector Eo v.11 and change much its amplitude This area called the area of geometrical optics. (2) $Z \approx ZJ$ $R_{1} = \sqrt{2} \times \sqrt{2} \times \sqrt{2} = R_{0}$ $R, \approx R_{b}$ It wears the hole will open few Sirs-I Fresuel's Amplitude will change depending on 2.

This is area of Freshed diffraction. 3) 2>>> 21 \mathcal{R}_{o} \mathcal{Z} 2 << 2 1 2≈ 2 1 2 >>> 71 In Mrs case R, >>> Ro. If means the hole . I opening very small portion of first tresul Zone fraction Franchofer d-Araetica diffract.'on