IM = water - view waters IP = IMTP & positions e rendering equation 12- Hemisters of all light disc Li= Incoming light direction Created by Jim Vajlya, In 1986. Lo(00) =] Li(w) cost; fo(wi, w) dwi Lo= Outgoing -11+ w = Outgoing -11-Oz = Incoming light angle surface reflections scattering Diffuse is specular can be because of Le coaling (specular) 2 material (diffuse) If some light (a beam) is specular it needs to be subtracted from the diffuse part. (1e, can't have 100% light on both specular and diffuse part), Bidirectional Reflectance Distribution Function (BRDF), f. (w) w). Statistical average of amount of light scattered $\int_{\Omega} f_{c}(\omega_{i}, \omega_{o}) d\omega_{o} \leq 1$ fo (wi, wo) = fr (wo, wi) & Doesn't matter which direction we calk. Blinn Phong: fr(wir, wa) = Kg + Ks (cospi) light works Blinn/thong is a crude approx. to the rendering Isotropic vs. anisotropic BRDFs Anisotropic takes a material direction from the norma into account making the reflection different based on the direction of the object.