Unreal Engine PBR - 2013 4 VE

Diffuse $f(1, v) = \frac{Cdiffuse}{TL}$, Cdiffuse = diffuse albedo
(diffuse AHAL)

Cook-Torrance Microfacet Specular BRDF

Specular f(1,v) = D(h) F(v,h) G(1,v,h) $4(n\cdot 1) (n\cdot v)$

Specular D D(h) = $\frac{\alpha^2}{\pi((n \cdot h)^2(\alpha^2 - 1) + 1)^2}, \alpha = (\text{buyhness}^2)$

Specular G

$$k = \frac{(Roughness + 1)^2}{8}$$

$$G_1(v) = \frac{n \cdot v}{(n \cdot v)(1 - k) + k}$$

$$G(1, v, h) = G_1(1)G_1(v)$$

Specular F

F(v,h) = F. + (1-F.) 2 (-5.55473(v.h)-6.98316)(v.h)

Fo = Specular reflectance at normal incidence

Unreal PBROWN BLOOK SCHOL ZHATE

Base Color = Albedo Metallo Roughness Image-Based Lighting

$$\int_{H} L_{1}(1)f(1,\nu)\cos\theta_{1}d1 \approx \frac{1}{N} \sum_{k\geq 1} \frac{L_{1}(1k)f(1k,\nu)\cos\theta_{1k}}{P(1k,\nu)}$$

हेर्मुषुन्द्रम्हन इन्हि मुड् प्रत मार्राज्याना प्रदेश व्याप्त स्था है। विक ~1000 जात सिद्धा रेपाय स्थाय स्थाय रेपाय रेप

Split Sym Approximoilion (5 48 441 2116-42 3413624)

$$\frac{1}{N} \sum_{k=1}^{N} \frac{L_{i}(l_{k})f(l_{k},v)\cos\theta_{ik}}{p(l_{k},v)} \approx \left(\frac{1}{N}\sum_{k=1}^{N}L_{i}(l_{k})\right)\left(\frac{1}{N}\sum_{k=1}^{N}\frac{f(l_{k},v)\cos\theta_{ik}}{p(l_{k},v)}\right)$$

DEHM Tochre Map YKKN TIGHT SE SE SE PRI PANTON TO FOIL SAM WHITH
Normal Lister 1 Her MERIONE SE ME THAT YER THE TERMENT

(Irrodance Map) -> Diffuse (22HM 24= 7+2=42 HAZ EJEL)

निर्धा हुई मुद्ध voybnesse (050) पहुँग वयत्रिक्ष Todure 20 हुं विद्या

$$\frac{1}{N} \sum_{k=1}^{N} \frac{f(1_{k}, V) \cos \theta_{ik}}{P(1_{k}, V)} = LUT. r \times F_0 + LUT. g$$

$$f(1,v) = \frac{D(h)F(v,h)G(1,h)}{4(n\cdot1)(n\cdot v)}$$

$$F(v,h) = F_0 + (1-F_0)(1-v\cdot h)^5$$

$$= F_0 - F_0(1-v\cdot h)^5 + (1-v\cdot h)^5$$

$$= F_0(1-(1-v\cdot h)^5) + (1-v\cdot h)^5$$

$$\int_H f(1,v) \cos\theta_1 d1 = \int_H \frac{F}{F} f(1,v) \cos\theta_1 d1$$

$$= F_0(v) + (v-v)$$

$$\int_{H} f(1,v) \cos \theta_{1} dt = F_{0} \int_{H} \frac{f(1,v)}{F(v,h)} (1-(1-v,h)^{5}) \cos \theta_{1} dt$$

$$+ \int_{H} \frac{f(1,v)}{F(v,h)} (1-v,h)^{5} \cos \theta_{1} dt$$

그래서 두, 교육의 감독 () + ()는 이민 게((건가인)) 생동대전

CHIEL Specular IBL Mapon 7/KE 31 2134361 9/2 372742 Roughnesser Losson Curs 12 16201 Look-UP Testure (LVI)2 21364 1/2/201 Ly 22/201 Look-UP Testure (LVI)2