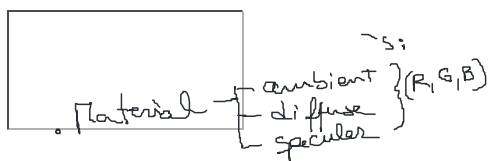
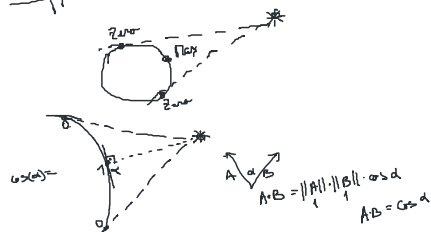


Lecture 02

Wednesday, October 6, 2021 16:37



Diffuse



specular



L: light position vector
 C: camera position vector (view point)
 V: intersection position vector
 E: vector from the intersection point to the camera (normalized)
 N: normal to the surface at the intersection point (normalized)
 T: vector from the intersection point to the light (normalized)
 R: reflection vector (normalized)
 $R = N * (N * T) * 2 - T$

```
Color = material.ambient * light.ambient;
if (N * T > 0)
  Color += material.diffuse * light.diffuse * (N * T);
if (E * R > 0)
  Color += material.specular * light.specular * pow(E * R, material.shininess);
Color *= light.intensity;
```

