



Figure III.14: A microfacet surface consists of small flat pieces. The horizontal line shows the average level of a flat surface, and the microfacets show the microscopic shape of the surface. Dotted lines show the direction of light rays. The incoming light can either be reflected in the direction of perfect mirror-like reflection ( $I_1$ ), or can enter the surface ( $I_2$ ). In the second case, the light is modeled as eventually exiting the material as diffusely reflected light.