

A diagram of a sphere represented by a dashed gray circle. A small square labeled A is shown on the lower-left portion of the sphere's surface. A yellow sun-like icon with radiating lines is positioned to the right of the sphere, labeled L , representing a light source.

$$\begin{aligned}\text{surface area} &= 4\pi r^2 \\ &= 4\pi D_M(z)^2\end{aligned}$$