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Fundamentals of Photonics, 2nd Edition

Photonics and optics fundamentals - 01-1 -
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4. EXERCISE 1.2-6 Light Trapped in a Light-Emitting Diode. a) The rays within the six cones of half angle $\theta_c = \sin^{-1}(1/n)$ ($n = 1.6$)

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for GaAs) are refracted into air in all directions, as shown in the illustration.

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3. an equation defining the surface, which can
be written in Cartesian coordinates as $n^2 = 1 + \frac{z^2}{a^2} + \frac{y^2}{b^2}$.
1. $n^2 = 1 + \frac{z^2}{a^2} + \frac{y^2}{b^2}$.
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3 an equation defining the surface, which can
be written in Cartesian coordinates as $n_1^2 (z + z_1)^2 + y^2 + n_2^2 (z - z_2)^2 + y^2 = n_1^2 z_1^2 + n_2^2 z_2^2$. (1) Given z_1 and z_2 , (1) relates
 y to z and thus defines the surface.

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