

Now,  $\rho(\pm c) = a$  implies both that  $C = 0$  and that  $a - A^2 = \frac{c^2}{4A^2}$ . Thus, writing  $A^2$  as  $k$ ,

$$4k^2 - 4ka + c^2 = 0 \quad \Rightarrow \quad k = \frac{1}{2}[a \pm (a^2 - c^2)^{1/2}].$$

The two stationary functions are therefore

$$\rho = \frac{z^2}{4k} + k,$$

with  $k$  as given above. A simple sketch shows that the positive sign in  $k$  corresponds to a smaller value of the integral.

**22.3** *The refractive index  $n$  of a medium is a function only of the distance  $r$  from a fixed point  $O$ . Prove that the equation of a light ray, assumed to lie in a plane through  $O$ , travelling in the medium satisfies (in plane polar coordinates)*

$$\frac{1}{r^2} \left( \frac{dr}{d\phi} \right)^2 = \frac{r^2 n^2(r)}{a^2 n^2(a)} - 1,$$

where  $a$  is the distance of the ray from  $O$  at the point at which  $dr/d\phi = 0$ .

If  $n = [1 + (\alpha^2/r^2)]^{1/2}$  and the ray starts and ends far from  $O$ , find its deviation (the angle through which the ray is turned), if its minimum distance from  $O$  is  $a$ .

An element of path length is  $ds = [(dr)^2 + (r d\phi)^2]^{1/2}$  and the time taken for the light to traverse it is  $n(r)ds/c$ , where  $c$  is the speed of light *in vacuo*. Fermat's principle then implies that the light follows the curve that minimises

$$T = \int \frac{n(r) ds}{c} = \int \frac{n(r'^2 + r^2)^{1/2}}{c} d\phi,$$

where  $r' = dr/d\phi$ . Since the integrand does not contain  $\phi$  explicitly, the E-L equation integrates to (see exercise 22.1)

$$\begin{aligned} n(r'^2 + r^2)^{1/2} - r' \frac{nr'}{(r'^2 + r^2)^{1/2}} &= A, \\ \frac{nr^2}{(r'^2 + r^2)^{1/2}} &= A. \end{aligned}$$

Since  $r' = 0$  when  $r = a$ ,  $A = n(a)a^2/a$ , and the equation is as follows:

$$\begin{aligned} a^2 n^2(a)(r'^2 + r^2) &= n^2(r)r^4, \\ r'^2 &= \frac{n^2(r)r^4}{n^2(a)a^2} - r^2, \\ \Rightarrow \frac{1}{r^2} \left( \frac{dr}{d\phi} \right)^2 &= \frac{n^2(r)r^2}{n^2(a)a^2} - 1. \end{aligned}$$

# Calculus Of Variations With Apps To Phys

**RJ Alexander**



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