

or

$$\psi(x, Q_1) = \frac{\alpha^2 x^2}{8} \cot Q_1. \quad (19)$$

Finally, combining (19), (18), (17), and (15) and comparing with (11) we see that we may simply take $\phi(Q_1) = 0$. The final form of the generating function is then

$$F(x, Q_1, p_y, Q_2) = -\left(\frac{\alpha}{2}x + \frac{1}{\alpha}p_y\right)Q_2 + \left(\frac{\alpha^2 x^2}{8} - \frac{1}{2}xp_y + \frac{1}{2\alpha^2}p_y^2\right)\cot Q_1$$

and its existence proves the canonicity of the transformation.

Turning now to the solution of the problem, we take the \mathbf{B} field in the z direction, i.e. $\mathbf{B} = B_0\hat{\mathbf{k}}$, and put

$$\mathbf{A} = \frac{B_0}{2} \begin{pmatrix} -y\hat{\mathbf{i}} + x\hat{\mathbf{j}} \end{pmatrix}.$$

Then the Hamiltonian is

$$\begin{aligned} H(x, y, p_x, p_y) &= \frac{1}{2m} \left(\mathbf{p} - \frac{q}{c} \mathbf{A} \right)^2 \\ &= \frac{1}{2m} \left[\left(p_x + \frac{qB_0}{2c}y \right)^2 + \left(p_y - \frac{qB_0}{2c}x \right)^2 \right] \\ &= \frac{1}{2m} \left[\left(p_x + \frac{\alpha^2}{2}y \right)^2 + \left(p_y - \frac{\alpha^2}{2}x \right)^2 \right] \end{aligned}$$

where we put $\alpha^2 = qB_0/c$. In terms of the new variables, this is

$$\begin{aligned} H(Q_1, Q_2, P_1, P_2) &= \frac{1}{2m} \left[\left(\alpha\sqrt{2P_1}\cos Q_1 \right)^2 + \left(\alpha\sqrt{2P_1}\sin Q_1 \right)^2 \right] \\ &= \frac{\alpha^2}{m} P_1 \\ &= \omega_c P_1 \end{aligned}$$

where $\omega_c = qB_0/mc$ is the cyclotron frequency. From the Hamiltonian equations of motion applied to this Hamiltonian we see that Q_2 , P_1 , and P_2 are all constant, while the equation of motion for Q_1 is

$$Q_1 = \frac{\partial H}{\partial P_1} = \omega_c \quad \longrightarrow \quad Q_1 = \omega_c t + \phi$$

for some phase ϕ . Putting $r = \sqrt{2P_1}/\alpha$, $x_0 = P_2/\alpha$, $y_0 = Q_2/\alpha$ we then have

$$\begin{aligned} x &= r(\sin \omega_c t + \phi) + x_0, & p_x &= \frac{m\omega_c}{2} [r \cos(\omega_c t + \phi) - y_0] \\ y &= r(\cos \omega_c t + \phi) + y_0, & p_y &= \frac{m\omega_c}{2} [r \sin(\omega_c t + \phi) + x_0] \end{aligned}$$

in agreement with the standard solution to the problem.

Goldstein Classical Solution

Robert W. Hornbeck



Goldstein Classical Solution:

The book delves into Goldstein Classical Solution. Goldstein Classical Solution is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Goldstein Classical Solution, encompassing both the fundamentals and more intricate discussions.

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