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

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

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

and its existence proves the canonicality of the transformation.

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

$$\mathbf{A} = \frac{B_0}{2} \left(-y \mathbf{I} + x \mathbf{j} \right).$$

Then the Hamiltonian is

$$H(x, y, p_x, p_y) = \frac{1}{2m} \left(\mathbf{p} - \frac{q}{c}\mathbf{A}\right)^2$$

 $= \frac{1}{2m} \left[\left(p_x + \frac{qB_0}{2c}y\right)^2 + \left(p_y - \frac{qB_0}{2c}x\right)^2 \right]$
 $= \frac{1}{2m} \left[\left(p_x + \frac{\alpha^2}{2}y\right)^2 + \left(p_y - \frac{\alpha^2}{2}x\right)^2 \right]$

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

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

 $= \frac{\alpha^2}{m} P_1$
 $= \omega_c P_1$

where $\omega_c = qB/mc$ 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

$$\dot{Q}_1 = \frac{\partial H}{\partial P_1} = \omega_c$$
 \longrightarrow $Q_1 = \omega_c t + \phi$

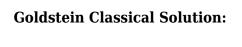
for some phase ϕ . Putting $r = \sqrt{2P_1}/\alpha$, $x_0 = P_2/\alpha$, $y_0 = Q_2/\alpha$ we then have

$$x = r(\sin \omega_c t + \phi) + x_0$$
, $p_x = \frac{m\omega_x}{2} \left[r \cos(\omega_c t + \phi) - y_0\right]$
 $y = r(\cos \omega_c t + \phi) + y_0$, $p_y = \frac{m\omega_x}{2} \left[r \sin(\omega_c t + \phi) + x_0\right]$

in agreement with the standard solution to the problem.

Goldstein Classical Solution

Lei Huang



Goldstein Classical Solution Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Goldstein Classical Solution**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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