Errata: A Student's Guide to Analytical Mechanics

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p. 104: The cyclotron frequency is incorrectly defined. The correct definition is $\omega_c = qB/mc$. With this definition, Lagrange's equations admits a solution that is a circular orbit with $\dot{\phi} = -\omega_c$.

p. 174: Before the final equation on the page, the assertion should be that $\dot{\beta}$ is approximately constant over one period of the oscillation, not β itself.