

Here are some typos in K & K. If you find more such errors, send them along, and I'll add them to the list.

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Page 382. The equation in the middle of the second paragraph, right after the phrase “with respect to time gives,” is missing a factor of μ in the last term. It should read:

$$0 = \mu r^2 \ddot{\theta} + 2\mu r \dot{r} \dot{\theta}.$$

Page 383. The text near the end of the last paragraph of section 9.4 says “From Eqs. (9.16a and b),” but there are no such equations. It should read “From the time derivatives of Eqs. (9.17a and b).”

Page 392. The first term in Equation 9.22 should include a factor of x^2 , not x . The correct equation is:

$$(1 - \epsilon^2)x^2 - 2r_0\epsilon x + y^2 = r_0^2$$

Page 394. The first equation on this page (which does not have an equation number) has an upside-down epsilon(?) and is missing a cosine function. The correct equation is:

$$\cos \theta_a = \frac{1}{\epsilon}$$

Page 396. Mid-page, there is a missing minus sign in the second equation after the phrase “Knowing A , we can find E from Eq. (9.26).” The corrected equations are:

$$A = \frac{C}{(-E)} \quad \text{or} \quad E = -\frac{C}{A}.$$

Page 403. The second term in Equation 2 is missing a factor of ϵ . This should be the same as equation 9.22 (which is also wrong in the text; see above). The correct equation is:

$$(1 - \epsilon^2)x^2 - 2r_0\epsilon x + y^2 = r_0^2$$