

Errata “Introduction to Stellar Dynamics”

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Pag. 12, eq. (1.21): in the square root at the denominator, a^2 should be $2a^2$.

Pag. 17, fourth line after eq. (2.5), a $-$ sign should appear in front of the limit.

Pag. 32, first line after eq. (2.46), $\sin \vartheta$ is not squared.

Pag. 35, second line after eq. (2.59), substitute *spherical* with *cylindrical*.

Pag. 54, third line before eq. (3.15): “... mass of \mathbf{R}_{CM} ” should be “... mass of ρ_* ”.

Pag. 56, last line: “... positive quantities” should be “... negative quantities”.

Pag. 58, eq. (3.33): in the subscript a norm is missing, it should be $r = \|\mathbf{R}_{\text{CM}}\|$.

Pag. 60, first line after eq. (3.41): “*intertia*” should be “*inertia*”.

Pag. 61, second line after eq. (3.47): the sign \geq should be $>$.

Pag. 63, eq. (3.52): in the external square root, the correct expression is $1 + \sigma(\tau + k)$.

Pag. 64, first line after eq. (3.55): “... is the dependent ” should be “... is the time-dependent”.

Pag. 86, eq. (5.15): $\kappa_R^2(R)$ should be $\kappa_R^2(R_0)$.

Pag. 87, after eq. (5.18) “... aligned with the X -axis ...”.

Pag. 96, fifth line, Rt should be R_t .

Pag. 101, in eq. (5.68) a factor $\Omega(R)/\kappa_R(R)$ should multiply the square parenthesis; eq. (5.69) is unaffected.

Pag. 146, in eq. (8.31) two typos. The corrected expression is

$$\|\Delta \mathbf{v}_{\parallel}\| \sim \frac{\|\Delta \mathbf{v}_{\perp}\|^2}{2v} \sim \frac{2G^2 M^2}{b^2 v^3}.$$

Pag. 177, one line before eq. (10.19) “... *Second Law of Dynamics*”.

Pag. 184, eqs. (10.43)-(10.44): L_{rad}^+ should be L_{grav}^+ .

Pag. 251, eq. (13.67): at the denominator, q_2 should be q^2 . Second line after the equation, the positivity condition is $q > 1/\sqrt{2}$.

Pag. 261, line above eq. (13.108): replace θ with ϑ , and in the line below ϑ with i .

Pag. 262, eq. (13.109): $\sin i$ should be $\sin^2 i$.

Pag. 263, eq. (13.119): ρ_0 should be $\rho(0)$.

Pag. 274, eq. (13.157): inside the first integral, the quantity RdR is missing.

Pag. 278, Exercise 13.29: in the second line, $\rho = \rho(m)$ should be $\rho_* = \rho_*(m)$.

Pag. 282, fourth line after eq. (14.2), a $-$ sign is missing at the r.h.s. of the expression.

Pag. 298, eq. (A14): under the square root, $\|\mathbf{a}\|$ should be squared.

Pag. 299, second line, “*vecor*” should be “*vector*”.

Pag. 305, eq. (A53): a factor 2 is missing in front of the last integral.

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