April 24, 2025

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* $\mathbf{R}_{\mathrm{CM}}$*"* 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 $r = \|\mathbf{R}_{\mathrm{CM}}\|$.

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

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

Pag. 173, one line before eq. (10.6) *"... whose "surface" is related to the function ..."*.

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. 242, eq. (13.25): in the $m = 1$ case, at the denominator $s^{1/2}$ should be s.
In the $m > 1$ case, at the denominator $2mb^{m-1}$ should be $2\pi mb^{-1}$.

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. 279, Exercise 13.30: in eq. (13.187) a should be a_*.

Pag. 279, Exercise 13.31: after eq. (13.189) $\mathrm{B}(a; x, y)$ should be $\mathrm{B}(p, q; x)$.

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.

Thanks to