S. Ferraz-Mello, DYNAMICS OF THE GALILEAN SATELLITES

ERRATA

p. 14 eqn.(2.5) instead of ΣV_{0j} read V_{0j}

p. 15 1st.eqn. instead of V_{i0} read V_{ij}

p. 16 line 7 instead of "vector triple product" read "scalar triple product".

p. 24 brackets instead of ε read σ

p. 25 eqn.(2.16) instead of $\frac{\partial R}{\partial \Omega} + \cos I \frac{\partial R}{\partial \omega}$ read $\frac{\partial R}{\partial \Omega} - \cos I \frac{\partial R}{\partial \omega}$

p. 34 eqn.(3.4) read $z_i = r_i I_i \sin(\lambda_i - \Omega_i)$

p. 38 all eqns. read $\frac{s(s+1) \ldots (s+k-1)}{k!}$

p. 38 4th. eqn. instead of α^k read α^{2k}

p. 39 6th. eqn. instead of $\alpha^2(z + \frac{1}{z})$ read $\alpha(z + \frac{1}{z})$

p. 44 1st. eqn. read $r_{ij}^{-1} = \{r_i^2 + r_j^2 - 2 r_i r_j \cos S_{ij}\}^{-1/2}$

p. 46 1st. eqn. instead of ρ_{ij} read ρ_{ij}^{-2}

p. 46 eqn.(3.19) instead of $\{(k+1)\lambda_i - k\lambda_j + \varpi_i\}$ read $\{(k+1)\lambda_i - k\lambda_j - \varpi_i\}$

p. 48 eqn.(3.22) instead of $-\frac{r_i}{r_j}$ read $-\frac{r_i}{r_j^2}$

p. 49 line 13 instead of $+ 48\, a_3^2$ read $+ 48\, a_3^3$

p. 50 2nd. eqn. read $(\alpha \frac{db^k_{1/2}}{d\alpha} + b^k_{1/2})$;

p. 50 5th. eqn. read $a_j^2 \frac{\partial^2 A^k_{ij}}{\partial a_j^2} =$

p. 51 2nd. eqn. instead of $= \alpha b^k_{3/2}$ read $= \alpha b^{k+1}_{3/2}$

p. 53 last line instead of 164(1967) read 379(1977)

p. 58 eqn. (4.3) instead of k and h read k_i and h_i.

id. instead of $(2\lambda_i - \lambda_j - \varpi_i)$ read $(2\lambda_i - \lambda_j)$

p. 58 eqn. (4.4) read $\frac{d\zeta_i}{dt} = \frac{i}{n_i a_i^2}($ ...

p. 61 1st. line instead of "to the first degree" read "except for terms of the first degree".

p. 64 1st. eqn. read $\frac{d\zeta_i}{dt} = -\{...$

p. 64 3rd. eqn. read $\delta\zeta_i = +\frac{1}{2}\sigma_i \exp i\lambda_i$

p. 65 1st. eqn. read $\delta r_i = -\frac{1}{2} a_i \sigma_i$

p. 65 3rd.eqn. read $\bar{r}_i = a_i(1 - \frac{1}{2}\sigma_i)$

p. 65 8th. eqn. read $a_i = \tilde{a}_i(1 + \frac{2}{3}\sigma_i)$

p. 70 3rd. eqn. instead of $-\frac{3G}{n_i a_i^7}$ it should be $-\frac{3G}{8n_i a_i^7}$;

the numerical examples were coumputed with the printed formula. Some major changes are $\{1,1\} = -23276$, $\{2,2\} = -5790$ in Table 5.1 and similar changes in the characteristic roots given in Tables 5.4 and 7.2 (see below).

p. 74 eqn. (5.12) instead of ϖ_i and M_j^{μ} read ϖ_i and M_i^{μ}

p. 79 Table 5.5 The "Oblateness-second Order" values are 11.3 and 0

p. 85 eqn. (6.4) it should be $\bar{B}_j = \sum_{-\infty}^{+\infty} B_j^{(k)} \exp ki\theta$

p. 85 4th. eqn. instead of $b_{ij}^k \bar{B}_k$ read $b_{ij}^k \bar{B}_k^*$ (i,j,k = 1,2)

instead of $b_{ij}^k e^{i\theta} \bar{B}_k$ read $-b_{ij}^k e^{2i\theta} \bar{B}_k^*$ (i,j,k = 2,3)

p. 86 lines 7 to 9 read

$$\bar{B}_1 = 4333 + 136e^{-i\theta} + 7e^{i\theta} + 1e^{-2i\theta}$$

$$\bar{B}_2 = -2312 + 7412e^{i\theta} - 326e^{-i\theta} + 49e^{2i\theta} - 2e^{-2i\theta} + 7e^{3i\theta}$$

$$\bar{B}_3 = -1 - 615e^{i\theta} - 19e^{2i\theta} - 3e^{3i\theta}$$

p. 96 line 5 instead of 2.85×10^{-4} read 2.85×10^{4}

p. 96 lines 11 to 13 The simplified calculation leads to
($Q_1 = 0.127$ $Q_2 = -0.275$ $Q_3 = 0.024$
(correct Table 7.5 accordingly)

p. 97 6th. eqn. read $T_1 < \frac{\pi}{\sqrt{2C_1}}$ that is $T_1 < 616$ days.

p. 99 3rd. eqn. instead of k read k^2

p.100 4th. eqn. instead of 2π read $\pi/2$

p.108 Table 7.2 instead of 2807 read 2731
instead of 706 read 700

p.113 last.eqn. read $\frac{d\zeta_i}{dt} = \frac{3}{4} \frac{Gm_o i}{n_i a_o^3}$ {....

p.116 3rd.eqn. read $= -3 \dfrac{Gm_o}{n_i n_o a_o^3} \ldots$

p.118 1st.eqn. read $-\dfrac{15Gm_o}{4n_i a_o^3} e_i \exp i(2\lambda_o - \varpi_i)$

p.118 eqn.(8.3) read $-\dfrac{15Gm_o}{4n_i a_o^3} \zeta_i^* \exp 2i\lambda_o$

p.118 4th.eqn. instead of Gm_o read $Gm_o i$

p.118 5th.eqn. instead of ζ_j read $-\zeta_j$

p.119 5th.eqn. instead of δr_j read $-\delta r_j$

p.120 Table 8.3 instead of $A_j^1 \ldots A_j^4$ read $A_1^j \ldots A_4^j$

p.126 last line instead of "eqns.(9.8) become" read "the last equation becomes".

p.128 line 7 read $\dot{N}_1 = rN_2 - \dot{\Omega}K_3 N_2$

p.130 eqn.(9.14) instead of $\dot{I} =$ read $-\dot{I} =$

p.135 2nd.eqn. instead of $\frac{3}{8} \dfrac{Gm_o}{a_o}$ read $-\frac{3}{8} \dfrac{Gm_o}{a_o}$

p.135 eqn.(10.4) instead of $\dfrac{d\Pi_j}{dt}$ read $-\dfrac{d\Pi_j}{dt}$

p.145 1st.eqn. instead of $i\Lambda_j$ read Λ_j

p.145 line 17 instead of $-3K_o \times 10^{-7}$ read $-3K_o \times 10^{7}$

p.169 line 17 instead of $+5 \times 10^{-9}$ read -5×10^{-9}

p.177 Table 11.9 correct last column according to Tables 7.2 and 10.2