M. d. A. Bueno e A. K. T. Assis, Cálculo de Indutância e de Força em Circuitos Elétricos (Editora da UFSC/Editora da UEM, Florianópolis/Maringá, 1998), ISBN: 85-328-0119-6

Errata

P. 27, eq. (1.7) deve ser: $V_{12}^{W} = \frac{q_1 q_2}{4\pi\varepsilon_o}\frac{1}{r_{12}}\left(1 - \frac{\dot{r}_{12}^2}{2c^2}\right)$

P. 44, terceira linha embaixo da eq. (2.14) deve ser: às vezes se escreve esta expressão como $L_a + L_b \pm 2M_{ab}$, considerando M_{ab}

P. 46, eq. (2.17): M_{ab} em vez de M_{12}.

P. 50, eq. (3.2) deve ser:

$$M_{par} = -\frac{\mu_o}{4\pi}\left(a\sinh^{-1}\left(\frac{a}{b}\right) + (a+\ell_2-\ell_1)\sinh^{-1}\left(\frac{a+\ell_2-\ell_1}{b}\right)\right.$$
$$-(a-\ell_1)\sinh^{-1}\left(\frac{a-\ell_1}{b}\right) - (a+\ell_2)\sinh^{-1}\left(\frac{a+\ell_2}{b}\right)$$
$$-\frac{(3-k)}{2}\{(a^2+b^2)^{1/2} - [(a-\ell_1)^2+b^2]^{1/2}$$
$$\left.-[(a+\ell_2)^2+b^2]^{1/2} + [(a+\ell_2-\ell_1)^2+b^2]^{1/2}\}\right).$$

P. 84, eq. (5.33) deve ser:

$$\frac{\mu_o}{4\pi}\frac{I_i I_j}{r_j^2}\left[\frac{dz_j}{d\ell_j}\frac{x_j\hat{x}+y_j\hat{y}+z_j\hat{z}}{r_j} - \frac{z_j}{r_j}\frac{dx_j\hat{x}+dy_j\hat{y}+dz_j\hat{z}}{d\ell_j}\right]d\ell_i d\ell_j$$
$$= \frac{\mu_o}{4\pi} I_i I_j d\ell_i\left[\hat{x}\left(x_j\frac{dz_j}{d\ell_j} - z_j\frac{dx_j}{d\ell_j}\right) + \hat{y}\left(y_j\frac{dz_j}{d\ell_j} - z_j\frac{dy_j}{d\ell_j}\right)\right]\frac{d\ell_j}{r_j^3}$$

P. 86, eq. (5.38) deve ser: $d^6\vec{F}_{ij}^{G} = -\frac{\mu_o}{4\pi}\frac{1}{r_{ij}^2}\left[\left(\vec{J}_i\cdot\vec{J}_j\right)\hat{r}_{ij} - \left(\vec{J}_i\cdot\hat{r}_{ij}\right)\vec{J}_j\right]dV_i dV_j$

P. 99, eq. (6.21) deve ser:

$$\vec{F}_{PF}^{A} = \hat{y}\frac{\mu_o I^2}{2\pi}\left(\ln\left(\frac{\ell_2}{\ell_1}\right) - \ln\left(\frac{\ell_2-\ell_1}{\ell_2}\right) - \sinh^{-1}\left(\frac{\ell_2}{\ell_3}\right) + \frac{\left(\ell_2^2+\ell_3^2\right)^{1/2}}{\ell_2}\right)$$

P. 100, eq. (6.24) deve ser:

$$\left.\begin{aligned}(F_{34}^G)_x = -(F_{54}^G)_x; (F_{35}^G)_x = -(F_{53}^G)_x; (F_{43}^G)_y = (F_{45}^G)_y; \\ (F_{34}^G)_y = (F_{35}^G)_y = (F_{43}^G)_x = (F_{45}^G)_x = (F_{53}^G)_y = (F_{54}^G)_y = 0,\end{aligned}\right\}$$

P. 100, eq. (6.27) deve ser:

$$\left(F_{45}^G\right)_y = \frac{\mu_o I^2}{4\pi\,\omega^2}\int_0^{\ell_3} dx_4 \int_{\ell_2-\omega}^{\ell_2} dy_4 \int_0^{\omega} dx_5 \int_{\ell_1}^{\ell_2-\omega} dy_5 \frac{(x_4-x_5)}{\left[(x_4-x_5)^2+(y_4-y_5)^2\right]^{3/2}}$$

P. 101, eq. (6.29) deve ser:

$$\vec{F}_{PF}^G = \hat{y}\frac{\mu_o I^2}{2\pi}\left(\sinh^{-1}\left(\frac{\ell_2-\ell_1}{\ell_3}\right)-\sinh^{-1}\left(\frac{\ell_2}{\ell_3}\right)-\ln\left(\frac{\ell_2-\ell_1}{\ell_2}\right)+\frac{\left(\ell_2^2+\ell_3^2\right)^{1/2}}{\ell_2}-1\right)$$

P. 101, eq. (6.30) deve ser:

$$\vec{F}_P^G = \hat{y}\frac{\mu_o I^2}{2\pi}\left(\ln\left(\frac{\ell_2}{\omega}\right)-\sinh^{-1}\left(\frac{\ell_2}{\ell_3}\right)+\frac{\left(\ell_2^2+\ell_3^2\right)^{1/2}}{\ell_2}+\ln 2\right.$$

$$\left.+\frac{\sqrt{2}}{2}-\frac{3}{2}\sinh^{-1}(1)-\frac{1}{2}-O\left(\frac{\omega}{\ell}\right)^3\right)$$

P. 103, eq. (6.32) deve ser:

$$\left(F_{45}^G\right)_y = \frac{\mu_o I^2}{4\pi\,\omega^2}\int_0^{\omega} dx_5 \int_{\ell_2-\omega}^{\ell_2} dy_4 \int_{\ell_2-y_4}^{y_4+\ell_3-\ell_2} dx_4 \int_{\ell_1}^{\ell_2-x_5} dy_5 \frac{(x_4-x_5)}{\left[(x_4-x_5)^2+(y_4-y_5)^2\right]^{3/2}}$$

P. 137, eq. (8.2) deve ser:

$$F_{82}^x = \frac{\lambda_2\lambda_8}{4\pi\,\varepsilon_o}\frac{(v_8-v_2)^2}{2c^2}\int_{A+B}^{A+B+L} dx_8 \int_{A+2B+L}^{A+2B+C+L} dx_2 \frac{1}{(x_2-x_8)^2}$$

$$= -\frac{\lambda_2\lambda_8}{4\pi\,\varepsilon_o}\frac{(v_8-v_2)^2}{2c^2}\left(\ln\left(\frac{B+C+L}{B+C}\right)-\ln\left(\frac{B+L}{B}\right)\right)$$

P. 138, na eq. (8.4) a segunda fração deve ser $\dfrac{(v_8-v_4)^2}{2c^2}$ em vez de $\dfrac{(v_B-v_4)^2}{2c^2}$

P. 138, eq. (8.6) deve ser:

$$F_{86}^x = -\frac{\lambda_8\lambda_6}{4\pi\,\varepsilon_o}\left(\frac{(v_8-v_6)^2}{2c^2}\right)\left(\ln\left(\frac{B+L}{B}\right)-\ln\left(\frac{A+B+L}{A+B}\right)\right)$$

P. 150, eq. (A.3) deve ser:

$$S \equiv \int_{a}^{a+\omega} dx \int_{b}^{b+\omega} dy \; f(x, y).$$