C.P.Sparks. Marine Riser Mechanics. 2nd Edition. Chapter Errata

Required corrections highlighted in yellow

Chapter & Page	Place on page	Comment
2 – 23	Figure 2 - 4	Shear Forces F, and associated arrows, should be grey, on both Figures, to indicate they are identical (cf. Moments)
4 – 64	4 lines above Eq. (4.18)	Should read: …. and at the outer surface, $\sigma_{cm} + \sigma_{cbe} = \sigma_p + \tau_e$
4 – 67	2 lines above page end	2nd Equation "$\sigma_p = 100{,}056$" should be removed
5 – 73	4 lines above Eq. (5.6)	ν_i and ν_e should be written: $\overline{\nu_i}$ and $\overline{\nu_e}$
5 – 75	6 lines above page end	$\nu_i \geq 0.5$ should be written: $\overline{\nu_i} \geq 0.5$
5 – 77	Line above Eq. (5.10)	should read: …… internal pressure p_i reaches ……
5 – 82	2 lines above Eq. (5.26)	Should read: The effective tension T_{em} at the mid-point …
9 – 128	4 lines above Eq. (9.10)	Letter 'j' should be subscript to 'α' to read: α_j
10 – 139	Above Eq. (10.11)	Should read: … given in appendix G (see equation [G.21]).
10 – 185	10 lines above page end	Should read: .. resonant frequencies ($\omega_n L/c = n\pi$), for which...
15 – 220	Below Eq. (15.24)	Should read: Therefore $z_x\left(\sqrt{T_t} - \sqrt{T_b}\right) = (z_t - z_b)\sqrt{T_x}$, hence
	Below Eq. (15.27)	should read: Thus, from equations (15.25) and (15.27),
15 – 226	Eq. (15.54)	Far right denominator should read: $\sqrt{T'_k T'_{k+1}}$
15 – 234	Above Eq. (15.65)	Sentence should end: …. from lower end, and subscripts t and b refer to top and bottom ends of the particular segment:
15 – 235	5 lines below Eq. (15.67)	Should read: …. segment, $(z_t - z''_b)_{top} = n\pi$, which …..
16 – 251	First bullet point	Letter 'L' should be subscript, to read $(p_e A_e)_L$
17 – 258	Figure 17 – 1a)	Arrow should point angle ϕ between curve and vertical
17 – 261	Equation (17.6)	Should read: $2F_h \sin\left(\frac{\delta\theta}{2}\right) = \frac{w_r}{\sin\phi} 2r \sin\left(\frac{\delta\theta}{2}\right)$
17 – 264	Fig. 17 – 4b)	Upper grey expression should read: $M_r - \delta M_r/2$ central equation should read : $\delta s/2 = r\delta\theta/(2\sin\phi)$ Lower grey expression should read: $M_r + \delta M_r/2$
17 – 265	Above Eq. (17.20)	should end: … from figure 17 – 4b, equation (17.19) leads to:
18 – 268	Eq. (18.5)	Should read: $F_s \sin\emptyset_R - P\sin^2\emptyset_R + F_h \sin\emptyset_R \cos\emptyset_R = 0$
	Eq. (18.9)	Should be spaced: a= EI $\cos\phi_R$; b = Pr; c = w_r r $\cos\phi_R$
18 – 270	3 lines above Eq. (18.20)	2nd Line should read: ….. through distance (δs) along its ….
18 – 276	3 lines above Eq. (18.36)	Line should end: …… and also assumes $p^2 >> 4\pi^2 r^2$.

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Chapter & Page	Place on page	Comment
19 – 290	5 lines below Eq. (19.31)	should read: …the horizontal force (F_{hP}) for the ….
19 – 299	12 lines above page end	should read: … defined by the axes through the contact point
20 – 306	1st paragraph	1st sentence should end: … angle ϕ_V at the VBR (where subscript '$_V$'now implies *VBR parameters*).
20 – 313	Line below Eq. (20.17)	Should read: … determined, equation (20.17) can be used....
20 – 316	Table 20-4.	2nd column heading should read: BOP deflection ratio
20 – 320	Fig. 20-7 d)	Upper 20% of 'curve' should be black, dashed, (cf. Fig. 20-1c)

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Appendix & Page	Place on page	Comment
C – 344	2 lines below Eq. (C.2)	Should read: … and u is the instantaneous velocity ...
K – 392	Eq. (K.4)	Should read: $\frac{C_r^2}{2} = \frac{2}{r^2}\left[\frac{\emptyset^4 - \emptyset_R^4}{4} - \frac{\emptyset_R^2\emptyset^2 - \emptyset_R^4}{2}\right] = \frac{2}{r^2}\left[\frac{\emptyset_R^4 - 2\emptyset_R^2\emptyset^2 + \emptyset^4}{4}\right]$
	Line below Eq. (K.6)	Should begin: Equation (K.6) can be integrated ……..
L – 398	Fig. L-2b)	Label M_{hP} missing from below 'lower moment arrow' *Note that Fig. L-2 should be identical to Fig. 19-3.*
L – 400	Eq. (L.11)	Should read: $\emptyset_P = -\left(\frac{dx}{dz}\right)_{z=b} = \beta_f \frac{M_{rP}}{Pf}$
L – 402	2 lines above Eq. (L.25)	Should read: … follows by symmetry that $M_{hP} = M_{hA}$. Then …
L – 403	Table L-1, Line 3,	'pinned-end case' should read: $\left[\frac{1}{\beta_f}\right] Pf\emptyset_P$
L – 404	Table L-2, Line 1	Formula should read: $\left[\frac{(1-Q)\alpha_f}{\beta_f}\right]\frac{\emptyset_P}{\emptyset_R}$
0 – 421	Table O-1, '**Expression**' column	Line 1 should read: $P = \frac{2EI}{r^2} sin^2\emptyset_R cos\emptyset_R - \frac{M_a}{r} sin\emptyset_R$
		Line 3, should read: $F_s = \frac{EI}{r^2} sin^3\emptyset_R cos\emptyset_R - \frac{M_a}{r} sin^2\emptyset_R$
	Table O-2, '**Moment**' column	Line 2 should read: Component about pipe axis (M_a)
		Line 3 should read: Component about vertical axis (M_v)