Design of structure and foundations for vibrating machines, ... S. V. Major

Dear Reader,
Unfortunately, errata do occur—particularly in a book of the scope and magnitude of this one. We have printed these errata on dry-back adhesive paper so that all you need do is trim the correct information, moisten it slightly, and press it into place. We apologize for this inconvenience and if you have any questions whatsoever, please write directly to me.

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Director, Book Publishing

Design of Structures and Foundations for Vibrating Machines
Errata

Page	Line	Reads	Should read
ii	Figure under "Design.."	Z_2, Z_1	Z_1, Z_2 (reversed)
7	Figure 1-3 (both axes)	τ	T
7	19 left	$\pm \sin \theta$	$\pm i \sin \theta$
7	22 right	v_0/m	v_0/ω_n
11	Figure 1-5 top	0.5	0.05
12	Figure 1-7 (vertical axis)		remove second (M_r)
19	Figure 1-29	D = 0.0	D = 0.05
20	21 left	$[2C\frac{\omega}{\omega_n}]^2$	$[2D\frac{\omega}{\omega_n}]^2$
22	Figure 1-48	add the following:	E = modulus of elasticity I = moment of inertia A = cross-sectional area γ = material density
28	12 left	35,200	35,250
31	16 right	$m_t e\omega^2$	$m_t e\omega_n^2$
34	10 left	$(Z_1)^2 \ldots (Z_2)^2$	$(\dot{Z}_1)^2 \ldots (\dot{Z}_2)^2$
39	Figure 2-1 bottom	$I_{\dot{\psi}}$	I_ψ
42	Figure 2-5 right	M_x	M_ψ
43	Figure 2-7 right	k_v	k_x
43	Figure 2-8 right		note "These equations ..." applies to (a) on left
44	Figure 2-10	Z_2, Z_1	Z_1, Z_2 (reversed)
53	Figure 3-6 ordinate	AMPLITUDE $\times 10^3$	AMPLITUDE, MM/1,000
55	34	add the following:	For definition of f_{nx}, $f_{n\psi}$ see nomenclature on page 98
82	5 left	$\sqrt{G_s g/\gamma_s}$	$\sqrt{G_s g/\gamma_s}$
86	2 left	$= 6.2\times10^6 + 1.2\times10^6 = 7.4\times10^6$ lb./in.	$= 6.0\times10^6 + 1.2\times10^6 = 7.2\times10^6$ lb./in.
86	Equation (5-22)	$G_s r_o h^2[\ldots$	$G_s r_o^2 h[\ldots$
86	Equation (5-23)	c_c'	c_ψ'
96	Table 6-2 step 4(b)	1,570.2	1,934.3
96	Table 6-2 step 4(b)	1,582.1	1,717.6

Page	Line	Reads	Should Read
97 ✓	37 right	(1,570.2) = 1,256.2 rpm and $1.2 f_m$ = 1,884.2 rpm.	(1,934.3) = 1,547.4 rpm and $1.2 f_m$ = 2,321.2
97 ✓	41 & 42 right	...$0.8 f_m$ = 0.8 (1,582.1) = 1,265.7 rpm and $1.2 f_m$ = 1.2 (1,582.1) = 1,898.5 rpm.	...$0.8 f_m$ = 0.8 (1,717.6) = 1,374.1 rpm and $1.2 f_m$ = 1.2 (1,717.6) = 3061.1 rpm.
106 ✓	bottom right	posts, wo on	posts, two on
107 ✓	5 right	footing mass only	footing only (delete mass)
107 ✓	10,11 reads:	where k_{z2} m_2 are the spring constant and mass of the foundation block, (Table 6-5)	
	should read:	where k_{z2} (Table 6-5) and m_2 are the spring constant and mass of the foundation block, respectively.	
107 ✓	27 reads:	(258.8 vs. 717.5 rpm, respectively).	
	should read:	(258.8 vs. 717.5 rpm, Table 6-5, respectively).	
119 ✓	next to last bottom left	0.868	0.0868
160 ✓	bottom left	add after $D_\psi = 0.20$,	$H = 17.0$ ft
160 ✓	last Equation (A1-4)	$(k_{23} - m_{23}\omega^2)$	$(k_{32} - m_{32}\omega^2)$
161 ✓	last Equation (A1-5)	$(k_{23} - m_{23}\omega^2)$	$(k_{32} - m_{32}\omega^2)$
164 ✓	4 right	$\sum_{r=1}^{3}$	$\sum_{r=1}^{3}$
166 ✓	29 right	$\frac{a_{rn}}{x_n}$	$\frac{a_{rn}}{X_n}$
168	Equations (A1-44)	0.0072	0.0011