

5-3-67
 Design of structure and foundations
 for vibrating machines, by S. C. Agraja

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_1, Z_2	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_1)
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:	
		35,200	35,250
28	12 left	$m_1 e \omega_1^2$	$m_1 e \omega_n^2$
31	16 right	$(Z_1)^2 \dots (Z_2)^2$	$(\dot{Z}_1)^2 \dots (\dot{Z}_2)^2$
34	10 left	I_ψ	I_ψ
39	Figure 2-1 bottom	M_x	M_ψ
42	Figure 2-5 right	k_ψ	k_x
43	Figure 2-7 right		
43	Figure 2-8 right		
44	Figure 2-10	Z_1, Z_2	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_{ux}, f_{uw} see nomenclature on page 98
82	5 left	$\sqrt{G_s g / \gamma_s}$	$\sqrt{G_s g / \gamma_s}$
86	2 left	$= 6.2 \times 10^6 + 1.2 \times 10^6 = 7.4 \times 10^6$ lb./in.	$= 6.0 \times 10^6 + 1.2 \times 10^6 = 7.2 \times 10^6$ lb./in.
86	Equation (5-22)	$G_s f_o^2 h^2 [\dots]$	$G_s f_o^2 h^2 [\dots]$
86	Equation (5-23)	c_ψ^1	c_ψ^1
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, two on footing mass only	posts, two on footing only (delete mass)
107 ✓	5 right	reads: where k_2 , m_2 are the spring constant and mass of the foundation block, (Table 6-5)	
107 ✓	10,11	should read: where k_2 (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).	0.0868
119 ✓	next to last bottom left	0.868	
160 ✓	bottom left	add after $D_y = 0.20$,	$H = 17.0$ ft
160 ✓	last Equation (A1-4)	$(k_{12} - m_{12}\omega^2)$	$(k_{12} - m_{12}\omega^2)$
161 ✓	last Equation (A1-5)	$(k_{12} - m_{12}\omega^2)$	$(k_{12} - m_{12}\omega^2)$
164 ✓	4 right	$\sum_{r=1}^3 \frac{a_m}{x_n}$	$\sum_{r=1}^3 \frac{a_m}{X_n}$
166 ✓	29 right		
168	Equations (A1-44)	0.0072	0.0011