

ERRATA

Elastic Buckling of a Column under Varying Axial Force

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Equation 4 should be replaced with the following:

$$a_n = \alpha_n + \left(\frac{1}{2\pi}\right) \sin(2\pi\alpha_n)$$

$$b_n = \alpha_n + \left(\frac{1}{4\pi}\right) \sin(4\pi\alpha_n)$$

$$c_n = \left(\frac{1}{\pi}\right) \sin(\pi\alpha_n) + \left(\frac{1}{3\pi}\right) \sin(3\pi\alpha_n)$$

The table in the Numerical Example section on p. 20 should read as follows:

n	α_n	a_n	b_n	c_n	P_n kips	$a_n P_n$ kips	$b_n P_n$ kips	$c_n P_n$ kips
1	1.0	1.0	1.0	0.0	-1.56	-1.560	-1.560	0.0
2	0.68	0.536	0.741	0.282	6.23	3.339	4.616	1.757
3	0.54	0.500	0.578	0.217	6.33	3.165	3.658	1.373
4	0.28	0.436	0.251	0.296	8.05	3.509	2.020	2.383
					19.05	8.453	8.734	5.513
					P_T	A	B	C

Equation 7 should be replaced with the following:

$$\frac{\pi^2 EI}{\lambda l^2} = 9.50$$

Finally, the buckling load factor, λ , should be 1.657.

