

TABLE ERRATA

268. J. B. RUSSELL, "A Table of Hermite Functions", Journal of Mathematics and Physics, Vol. XII (1933), p. 291-297.

An examination of pages 292 and 293 of these tables ($\phi_n(x)$ for $n = 0-3$, inclusive; x from 0-8, inclusive) revealed 35 errata. Values of $e^{-(x^2/2)}$ were taken or developed from U. S. National Bureau of Standards, Applied Mathematics Series No. 14, *Tables of the Exponential Function e^x* , and the supplementary Applied Mathematics Series No. 46, *Table of the Descending Exponential*. Exact values of the necessary Hermite polynomials were built up, using the appropriate polynomial expression. Products were carried to about 10 figures for comparison with Russell's table.

Hermite Functions—Russell's Table
Partial List of Errata

$\phi_n(x)$	x	For	Read	$\phi_n(x)$	x	For	Read
$\phi_0(x)$	0.36	.93726	.93725	$\phi_2(x)$	0.56	-.63740	-.63739
	1.10	.54608	.54607		0.68	-.11936	-.11935
	1.90	.16448	.16447		0.96	1.0638	1.0637
	2.50	¹ 43927	¹ 43937		2.50	1.0103	1.0105
	2.60	¹ 34048	¹ 34047		2.80	.58254	.58253
	6.20	⁸ 44964	⁸ 44963		3.40	.13665	.13664
	6.60	⁹ 31452	⁹ 34759		6.60	⁷ 54172	⁷ 59869
	7.00	¹⁰ 22898	¹⁰ 22897		7.00	⁸ 44422	⁸ 44421
$\phi_1(x)$	1.30	1.1169	1.1168	$\phi_3(x)$	1.20	-.20837	-.28037
	1.90	.62501	.62500		1.80	4.9586	4.9585
	2.30	.32663	.32662		2.10	5.3900	5.3899
	2.50	.21964	.21968		2.50	4.1731	4.1740
					2.70	3.2669	3.2668
					3.70	.38420	.38419
					4.00	.15566	.15565
					4.20	¹ 80124	¹ 80125
					4.40	¹ 39493	¹ 39306
					5.20	² 14277	² 14278
6.60	⁸ 41516	⁸ 45882	5.60	³ 20732	³ 20731		
7.00	⁹ 32057	⁹ 32056	6.60	⁶ 98350	⁶ 77191		
			7.00	⁷ 60908	⁷ 60907		

No formal examination was made of the balance of Russell's table ($\phi_n(x)$, n from 4-11, inclusive). However, an apparently large error in the common factor $e^{-(x^2/2)}$ for $x = 2.50$ and $x = 6.60$ was carried along in $\phi_n(x)$ for a number of values of n . Hence $\phi_n(2.50)$ and $\phi_n(6.60)$ are suspect for $n > 3$. For those arguments, a quick test of the tabled values for $3 < n < 7$ would seem to indicate that this supposition is well-founded.

The argument value 0.53 should be corrected to read 0.52 on page 292.

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