TABLE ERRATA


By a more extended calculation, the continued fraction herein for Euler’s constant has been found to be correct to only the first 3251 partial quotients of the 3470 listed. This error affects the accompanying statistical table as well as Table 1 on p. 390 of the authors’ related paper [1].

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On p. 31, in Formula 17 the Fourier cosine transform of

$$[\cosh(\beta x) + \cos c]^{-1} \cosh(ax)$$

should read

$$\pi^{-1} \csc c \{\cos[a(\pi - c)/\beta] \cosh[\nu(\pi + c)/\beta] - \cos[a(\pi + c)/\beta] \cosh[\nu(\pi - c)/\beta]\}$$

$$\times [\cosh(2\pi y/\beta) - \cos(2\pi a/\beta)]^{-1}.$$

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On p. 527, formula 4.224(11) is incorrect for the cases $a^2 < 1$ and $a^2 > 1$. When $a > 0$, the common value of the integrals $\int_0^{\pi/2} \ln(1 + a \sin x)^2 \, dx$ and
TABLE ERRATA

\[ \int_0^{*/2} \ln(1 + a \cos x)^2 \, dx \text{ can be written as} \]

\[ \pi \ln(a/2) + 4G + 4S(b), \]

where \( G \) is Catalan's constant, \( b = (1 - a)/(1 + a) \), and

\[ S(b) = \sum_{k=1}^{\infty} \frac{b^k}{k} \sum_{n=1}^{k} \frac{(-1)^{n+1}}{2n - 1}. \]

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EDITORIAL NOTE: Alternatively, when \( a^2 \leq 1 \), the value of these integrals can be expressed as

\[ \pi \ln(1 + (1 - a^2)^{1/2})/2 - 2 \sin^{-1} a \ln(1 + (1 - a^2)^{1/2})/a + 4 \text{Cl}_\lambda(\sin^{-1} a) - \text{Cl}_\lambda(2 \sin^{-1} a), \]

where \( \text{Cl}_\lambda(x) \) is Clausen's integral. When \( a \geq 1 \), the value is

\[ \pi \ln(a/2) + 4 \text{Cl}_\lambda(\sin^{-1} 1/a) - \text{Cl}_\lambda(2 \sin^{-1} 1/a). \]