ERRATA FOR EARLY FOURIER ANALYSIS BY HUGH L. MONTGOMERY

Current as of May 3, 2015

page, line	Correction
3, −5	Replace '*sequence*if' by '*sequence* if'.
24, −11	Delete 'and only if'.
45, 2	Replace '$e((m^2 − n^2)/p)$' by '$e(k(m^2 − n^2)/p)$'.
46, 10	Replace 'an arithmetic function' by 'an even arithmetic function'.
46, 11	Replace '$\widehat{f}(−n)/q$' by '$\widehat{f}(n)/\sqrt{q}$'.
46, 11	Replace '$\widehat{g}(k) = g(k)$' by '$\widehat{g}(k) = \sqrt{q}g(k)$ for all k'.
47, 7	Replace '$(p * q)(n)$' by '$(p * r)(n)$'.
57, 10	Replace '$e(−nm/m)$' by '$e(−nx/m)$.
57, 10	Replace '$e(−n(k + x)/m)$' by '$e(−n(k − 1 + x)/m)$'.
57, 10	Append 'dx' at the right end of the line.
62, 2	Replace '4' by '2'.
74	Replace Exercise 1 by the following: Suppose that f and g are members of $L^1(\mathbb{T})$, and that c is a constant. Show that $(cf) * g = f * (cg) = c(f * g)$.
76, −14	Replace '$e((n − k))$' by '$e((n − k)x)$'.
81, 6	Replace '$x_K < x < x_1$' by '$x_K < x < x_1 + 1$'.
81, 18	Replace 'for all x' by 'for all k'.
81, −1	Replace '4' by '2'.
84, 4	Replace '$\cos 2\pi x$' by '$\cos 2\pi nx$'.
84, −9	Between '=' and '$\cos 2\pi Nx$' insert '1+'.
85, 3	Replace '$n = 1$' by '$n = 0$'.
107, −11	In part (c), the '$\sin \pi x$' in the numerator of the fraction should be '$\sin \pi Nx$'.
109, 2	Replace '$\widehat{f}$' by '$\widetilde{f}$'.
109, 5	Replace '$\cos(2\pi nu$' by '$\cos 2\pi nu$'.
136, −5	In (5.6), the right hand side of the identity should be $$\int_0^1 |f(x)|^2 \, dx − \sum_{n=−N}^{N} |\widehat{f}(n)|^2,$$
155, −4	In Exercise 7(c), $T_r(x_j) = 0$ if $j \neq r$.
156, −13	Replace 'Corollary 6.2' by 'Theorem 6.1'.
156, −9	Replace '$1 + \frac{1}{N+1}$' by '$1 + \frac{1}{N}$'.
221, −13	Replace 'IF' by 'If'.