§4.3 Singular points and the Method of Frobenius

- On P. 178, the theorem should say

\[ \sum_{n=0}^{\infty} c_n (x - x_0)^{n+r} \]

instead of \[ \sum_{n=0}^{\infty} c_n (x - x_0)^r \].

- On PP. 179-180, references to Chapters 16 and 18 should be to 15 and 17, respectively.

§4.5 Appendix on power series, P. 192

- The second set of equations should include

\[ \sum_{n=0}^{\infty} c_n (x - x_0)^n \]

instead of \[ \sum_{n=0}^{\infty} c_n (x - x_0)^k \].

- The third set of equations should include

\[ \sum_{j=0}^{n} a_j b_{n-j} \]

instead of \[ \sum_{j=0}^{n} a_n b_{n-j} \].

§15.1 Legendre polynomials, P. 766

Equation (15.4) should be

\[ a_{n+2} = \frac{n(n+1)-\lambda}{(n+1)(n+2)} a_n. \]

The text leaves off the factor of \( a_n \).

§15.2 Bessel functions, P. 800

The third set of equations on this page should be \( L \theta'' + 2L' \theta' + g \sin \theta = 0 \). In the second term, the text omits a prime (') on the \( \theta \).