

Errata and Addenda to

R. B. Burckel:

An Introduction to Classical Complex Analysis I

- p. 101 lines -4 and -1. “+” to “-”
p. 133 line -4. Change closed interval to open interval.
p. 161 line -12. “(iii)” to “(ii)”
p. 163 lines -4 and -3. “ γ ” to “ $(\gamma \cap \bar{S}_r)$ ”
p. 183 line 5. Replace this remark with the following:
It is easy to show, using 5.33, that continuity of F and existence of D_2F already imply the continuity of the latter needed in 5.93.
- p. 186 line 17. 5.27 was earlier noted by LINDELÖF [1909], p. 10.
p. 187 line 8ff. Fourier methods of deducing Cauchy’s theorem were used much earlier. See, for example, A. HARNACK *Math. Annalen* 21 (1883), 305–326. **FM** 15, p. 185.
- p. 212 line 13. Theorem 6.34 is due to K. LÖWNER [1917].
p. 249 line 23. WOLFF [1926a] is a very elegant proof of the theorem in full generality.
- p. 255 line 4. A nice treatment may also be found in J. J. ANDREWS and R. C. LACHER *Aequationes Math.* 16 (1977), 137–147. **MR** 57 #6331.
- p. 264 line 19. The proof based on Fubini occurs also in the 3rd edition (1978) of the book AHLFORS [1966a].
- p. 265 line 10. This result occurs already in WALSH [1928].
p. 278 line 18. A direct proof of (ix), independent of (vii) and (viii), follows from 7.15.
- p. 281 line -1. For an alternative elegant proof of 8.33 see E. PHRAGMÉN *Acta Math.* 14 (1890–91), 225–232. **FM** 23, p. 890.
- p. 289 line 18. An important precursor of Runge was P. APPELL *Acta Math.* 1 (1882–83), 145–152 and *Math. Annalen* 21 (1883), 118–124. **FM** 15, pp. 323, 324.
p. 289 line -14. Add: See also JULIA [1927a].
p. 292 line 1. Delete “149–151”
p. 292 line 19. The integral representation is due independently to F. RIESZ *Ann. Sci. Ecole Norm. Sup.* (3) 28 (1911), 33–62. **FM** 42, p. 374.
- p. 339 line 5. Add MAITLAND [1939].
p. 340 line -13. “simply-connected” to “bounded, simply-connected”
p. 341 line -5. Add BESICOVITCH [1930].
p. 361 line -6. For detailed history of this theorem see E. NEUENSCHWANDER *Historia Math.* 5 (1978), 139–166. **Zbl** 374 #01010.
- p. 408 line 17ff. Different treatments of the Fresnel integrals occur in FEYEL and PRADELLE [1973], problem [6.25] and in M. GODEFROY *Nouvelles Annales de Math.* (3) 17 (1898), 205–206. **FM** 29, p. 245.
- p. 449 line -12. Delete period.
p. 457 line -15. The $(1-r)^{-1}$ dependence was shown earlier by H. BOHR and E. LANDAU *Göttingen Nachr.* (1910), 303–330. **FM** 41, p. 290.
- p. 466 line -1. Delete “and 1353.”
p. 495 line 28. “245–255” to “246–266”
p. 511 line 8. After “and” add: *C. R. des Séances Soc. Math. France*
p. 519 line 14. “(1899)” to “(1900)”
p. 519 line -3. Before “(1923)” insert volume numbers “176”
p. 522 line -7. Delete “(Russian).”
p. 526 line 6. After “(1931)” add page numbers “18–38.”
p. 569 line 3. “(-1)ⁿ” to “(-1)^k”