

## Errata

- p.4, l.-8: Replace “ $x \in M$ ” by “ $x \in A$ ”.
- p.4, l.-7: Replace “ $B(a, r) \subset M$ ” by “ $B(a, r) \subset A$ ”.
- p.6, l. 12: after (6) add “ $\forall a, b, c \in F,$ ”.
- p.11, l. 1: Add “in the second line” after “inequality”.
- p.14, l. -10: Replace  $a_n$  by  $\|a_n\|$  in two places.
- p.20, Remark 1.24: Replace  $|\cdot|$  by  $|\cdot|_p$ .
- p.21, formula (1.14): Replace  $b_2$  by  $d_2$ .
- p.24, l. 15: Replace  $b_i$  by  $d_n$ .
- p.27, l. -7: Replace  $1 + a_0 = 0$  by  $1 + a_0 \equiv 0 \pmod{p}$ .
- p.29, l. 3: summation should start at  $i = 0$ , not at  $i = 1$ .
- p.36, Remark 1.41: Replace “Helsel’s” by “Hensel’s”.
- p.38, l. -1: Replace  $\leq$  by  $<$ .
- p.47, Ex. 46: Replace “ $r \leq \infty$ ” by “ $p \leq \infty$ ”.
- p.53, l. -9: Replace  $B(a, r) = |x - a| < r$  by  $B(a, r) = \{x \in \mathbb{R} \mid |x - a| < r\}$ .
- p.57: Proof of Proposition 2.7: Replace  $a_0$  in line 7 and throughout the proof by  $a'$ .
- p.57, l. -4: Replace “call” by “called”.
- p.59, l. -15: Replace “cannot” by “can”.
- p.59, l. -5: Replace “Suppose  $a \in A$  so that  $A \neq \{a\}$ .” by “Suppose  $A$  is such that  $a \in A$  and  $A \neq \{a\}$ .”.
- p.61, l. 2: Replace  $I = [0, 1]$  by  $C_0 = I = [0, 1]$ .
- p.73: In the table the column headed with  $b$  should be headed with  $m$  and vice versa.
- p.78, l. 5: Replace  $|a_n|_p < \epsilon$  by  $|a_n|_p \leq \epsilon$  and  $|a'_n|_p < \epsilon$  by  $|a'_n|_p \leq \epsilon$ .
- p.79, l. 3: Replace  $|b_{ij}|$  by  $|b_{ij}|_p$ .
- p.80, l.-6: Replace “polynomial” by “polynomials”.
- p.81, l. 6: Replace “Hadamard” by “Hadamard”.
- p.88, last two lines: replace  $a$  by  $\alpha$  and  $a^{n-m}$  by  $\alpha^{n-m}$ .
- p.90, l. -3: the formula for  $\text{ord}_p(a_n)$  has an extra  $n$  in the denominator, delete it.
- p.92, l. 3 and l. 6: Delete  $\text{ord}_2$  in both places.
- p.95, l. 10: Replace “first” by “last”.
- p.96, l. 1: in (2) the opening  $|$  is missing.
- p.101, Corollary 3.45: one should assume that  $f(x)$  is a nonzero formal power series. At the end, replace “sequences” by “sequence”.
- p.115, l. 3: In Theorem 4.23, replace “continuity” by “discontinuity”. Also, one has to assume that  $X$  is complete.
- p.117, l. -11: Replace  $-$  by  $=$  in the middle of the line.
- p.137, l. -10: Replace “(3)” by “(4)”.
- p.139, Hint to **33**: Replace  $b + \frac{p^L}{1-p^L}$  by  $b + \frac{ap^L}{1-p^L}$ .
- p.140, Hint to **38**: Replace  $a_0^2$  by  $a_0^3$ .

p.144, Hint to **80**: In the series for sine and cosine replace  $(-1)^n$  by  $(-1)^n$ .