Correction to: Analytic Function Theory of Several Variables

Correction to:
J. Noguchi, *Analytic Function Theory of Several Variables*, https://doi.org/10.1007/978-981-10-0291-5

In the following numbered list, the first number is the page number; the second is the line number from above (the number with minus sign means the line number from the bottom), and: "A $\Rightarrow$ B" means that text A is corrected to text B.

1) xi; 7: oppotuities $\Rightarrow$ opportunities
2) xi; −11: opporunity $\Rightarrow$ opportunity
3) 19; 6 (the first raw in the determinant):
$$\frac{\partial f_1}{\partial w_1}\ \frac{\partial f_1}{\partial w_1}\ \frac{\partial f_1}{\partial w_2}\ i\frac{\partial f_1}{\partial w_2}$$
$$\cdots \Rightarrow \frac{\partial f_1}{\partial w_1}\ i\frac{\partial f_1}{\partial w_1}\ \frac{\partial f_1}{\partial w_2}\ i\frac{\partial f_1}{\partial w_2}\ \cdots$$
4) 31; −1: $\boldsymbol{Z} \Rightarrow \boldsymbol{Z} \setminus \{0\}$
5) 43; 10: $(\beta_1 \cdots \beta_n)^n \Rightarrow (\beta_1 \cdots \beta_n)^m$
6) 57; −4: q. we $\Rightarrow$ q, we
7) 58; 5: $\sum_{\nu=0}^{p'} \Rightarrow \sum_{\nu=0}^{p'-1}$
8) 58; 14: $\mathscr{O}_{\mathrm{P}\Delta_{n-1}}^{p+p'} \Rightarrow \mathscr{O}_{\mathrm{P}\Delta_{n-1}}^{p+p'(q-1)}$
9) 59; 3: constants $\Rightarrow$ constants in z_n

The updated original version of the book can be found at https://doi.org/10.1007/978-981-10-0291-5

J. Noguchi, *Analytic Function Theory of Several Variables*,
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10) 60; −3, −1: $\begin{pmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{pmatrix} \Rightarrow \begin{pmatrix} 0 \\ 0 \\ 0 \\ 0 \end{pmatrix}$
11) 62; −14, −12: $a_j \Rightarrow t_j$
12) 62; −5: $w(w(z)) \Rightarrow w(z)$
13) 109; −6: $\eta(\xi_1, \ldots, \xi_q) \in \mathscr{E}^{(q)}(X) \times (\mathscr{X}(X))^q \to \mathscr{E}(X). \Rightarrow \eta : (\xi_1, \ldots, \xi_q) \in (\mathscr{X}(X))^q \to \eta(\xi_1, \ldots, \xi_q) \in \mathscr{E}(X).$
14) 110; 11: $C^0(\mathscr{U}, X) \Rightarrow C^0(\mathscr{U}, \mathscr{O}_X)$
15) 129; −1: was was ⇒ was
16) 152; −4: $\mathbf{N}^2. \Rightarrow \mathbf{N}^2$, where $|0|^k := 1$ and $|0|^l := 1$.
17) 199; −2: $F^{-2} \Rightarrow F^{-}$
18) 201; −12: (5.3.2) ⇒ (5.3.3)
19) 204; −6: $\frac{z_n}{z_r} \Rightarrow \frac{z_n}{z_i}$
20) 229; −7: $\bar{\underline{X}}_a \Rightarrow \underline{X}_a$
21) 273; 1: $\mathscr{I}\langle Y \rangle_0 \Rightarrow \mathscr{I}\langle Y \rangle_a$
22) 279; −4⋯−2 (three lines): for $(u, v) \in \mathrm{P}\Delta_2 \subset \mathbf{C}^2, \ldots\ 0 \in \mathrm{P}\Delta_2. \Rightarrow$ for $(u, v) \in \mathbf{C}^2$. Show that $A \cap \{z_1 \neq 0\}$ is an analytic subset of $\{z_1 \neq 0\}$, but that A is not an analytic subset in any neighborhood of $0 \in \mathbf{C}^3$.
23) 279; −1: $\mathscr{O}_{2,0} \Rightarrow \mathscr{O}_{3,0}$
24) 318; 11: (7.4.4) ⇒ (7.4.5)
25) 319; 10: $\Omega_\Omega \Rightarrow \mathscr{O}_\Omega$
26) 325; −10: making ⇒ making use of
27) 325; −8⋯−4 (five lines): *The following* … (i) … (ii) … (iii) … *convex.* ⇒ *If a Riemann domain X is holomorphically convex, there is an element* $f \in \mathscr{O}(X)$ *whose domain of existence is X; in particular, X is a domain of holomorphy.*
    To obtain the converse of this theorem, we have to wait for Oka's Theorem 7.5.43.
28) 351; 9: $f \Rightarrow \underline{f}_0$
29) 364; −8: $\alpha_1 \Rightarrow \alpha_1^n$
30) 364; −8: $\alpha_2 \Rightarrow \alpha_2^n$
31) 384; 17: Rossi ⇒ Rossi,
32) 386; 8, 11–12: http://www.lib.nara-wu.ac.jp/oka/ ⇒ https://www.nara-wu.ac.jp/aic/gdb/nwugdb/oka/
33) 387; right column 17: Complete continuous ⇒ Completely continuous

Corrections to: Analytic Function Theory of Several Variables — Elements of Oka's Coherence, version 2023

In the following numbered list, the first number "p.xx" is the page number; the second "ℓ.yy" is the line number from above (the number with minus sign means the line number from the bottom), and : "A $\Rightarrow$ B" means that text A is corrected to text B.

1) p.56, ℓ.14: *z_n-polynomial-like elements* $\Rightarrow$ *a z_n-polynomial-like element*
2) p.318, ℓ.4: $(U_{j_0}, U_{j_1}) \Rightarrow (U_{j_0} \cap \Omega, U_{j_1} \cap \Omega)$
3) p.319, ℓ.1: $V_i \Rightarrow V_i \cap \Omega$
4) p.319, ℓ.6, 8 (2 places): $V_\alpha \cap V_\beta \Rightarrow V_\alpha \cap V_\beta \cap \Omega$