Below is an updated list of errata. The fault for all the errors in the book is my own, and I offer my sincere apologies for any inconvenience caused by the errors in the book.

This list was compiled with the generous assistance of: Eduardo Bravo, Greg Landweber, Ahmad Khaled, Wai Wah Lau, Einam Livnat, Guido Ursoleo, Yuanhong Zhi.

If you find any additional errors in the book, or any errors in this list of errors, I would very much appreciate it if you would let me know by email at bloch@bard.edu.

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<tr>
<th>Page</th>
<th>Line/Item</th>
<th>Text</th>
<th>Comment/Should be</th>
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<tr>
<td>16</td>
<td>-7</td>
<td>“Lemma 1.3.8”</td>
<td>Should be “Theorem 1.3.8”</td>
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<tr>
<td></td>
<td>(-9)–(-7)</td>
<td>“Whereas the proof of Theorem 1.3.8 makes use of only the properties of the integers given in Theorem 1.3.5, it turns out that not all properties of the integers can be deduced from that theorem.”</td>
<td>Should be “Whereas the proof given above of various parts of Theorem 1.3.8 makes use of only the properties of the integers given in Theorem 1.3.5, it turns out that not all properties of the integers can be deduced from that theorem, for example Theorem 1.3.8 (7), the proof of which makes use of Theorem 1.2.7 (13).”</td>
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<tr>
<td>25</td>
<td>Lemma 1.4.5 (7)</td>
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<td></td>
<td>Exercise 1.4.7 (2)</td>
<td>“$f &lt; g &lt; g + 1$”</td>
<td>Should be “$f &lt; g &lt; f + 1$”</td>
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<tr>
<td>33</td>
<td>Line 7</td>
<td>“$r^2 &lt; p$”</td>
<td>Should be “$r^2 &lt; s$”</td>
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<tr>
<td>33</td>
<td>Line 8</td>
<td>“$(r + \frac{1}{k})^2 &lt; p$”</td>
<td>Should be “$(r + \frac{1}{k})^2 &lt; s$”</td>
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</table>
There is some $p \in A - B$. Then by Lemma 1.6.5 (1) we know that $p < b$ for all $b \in B$. Let $c \in C$. Then $p + c < b + c$ for all $b \in B$. It follows from Lemma 1.6.5 (1) that $p + c \in \mathbb{Q} - (B + C)$. Because $p + c \in A + C$, we deduce that $A + C \nsubseteq B + C$.

Then by Lemma 1.6.5 (1) we know that $p < b$ for all $b \in B$. Let $c \in C$. Then $p + c < b + c$ for all $b \in B$. It follows from Lemma 1.6.5 (1) that $p + c \in \mathbb{Q} - (B + C)$. Because $p + c \in A + C$, we deduce that $A + C \nsubseteq B + C$.

Suppose that $A + C = B + C$. Then $(A + C) + (-C) = (B + C) + (-C)$. By Part (1) of this theorem we see that $A + (C + (-C)) = B + (C + (-C))$, by Part (4) it follows that $A + D_0 = B + D_0$, and by Part (3) we deduce that $A = B$, which is a contradiction. Hence $A + C \nsubseteq B + C$.

Should be “Suppose that $A + C = B + C$. Then $(A + C) + (-C) = (B + C) + (-C)$. By Part (1) of this theorem we see that $A + (C + (-C)) = B + (C + (-C))$, by Part (4) it follows that $A + D_0 = B + D_0$, and by Part (3) we deduce that $A = B$, which is a contradiction. Hence $A + C \nsubseteq B + C$.”

Lemma 2.3.9 (7) “$|a| - |b| \leq |a + b|$ and $|a| - |b| \leq |a - b|$” Should be “$||a| - |b|| \leq |a + b|$ and $||a| - |b|| \leq |a - b||$.”

Line 2 “$x \in \mathbb{N}$” Should be “$n \in \mathbb{N}$”

Line -2 “$X$” Should be “$A$”

Line -1 “$X$” Should be “$A$”

Line 5 “$L = F - Q$” Should be “$L = F - U$”

Line 19 “$f$ has the form $f(x) = a_0 + a_1x + \cdots + a_nx^n$” Should be “$p$ has the form $p(x) = a_0 + a_1x + \cdots + a_nx^n$”

Line 24 “$f(r) = 0$” Should be “$p(r) = 0$”

Line 5 “exists all $i \in \mathbb{N}$” Should be “exists for all $i \in \mathbb{N}$”

Line -3 “$f'(c) \neq 0$” Should be “$f(c) \neq 0$”

Line 17 “Suppose that $b - a = c - b$” Should be “Suppose that $f$ is differentiable, that $b - a = c - b$”

Line 14 “antiderivative unique” Should be “antiderivative is unique”

Line -4 “$M \in \mathbb{N}$” Should be “$M \in \mathbb{R}$”

Lines 4–5 “Suppose that $f$ is strictly increasing.” Should be “Suppose that $f$ is continuous and strictly increasing.”

Line 9 Remove “Suppose that $f$ is continuous at $b$.”

Line -8 “$P \in \mathbb{R}$” Should be “$K \in \mathbb{R}$”

Line -8 “$|f(x) - f(y)| \leq P$” Should be “$|f(x) - f(y)| \leq K$”

Line -7 “$M_i(f) - m_i(f) \leq P$” Should be “$M_i(f) - m_i(f) \leq K$”
261 Line 19  
“[M, P]”  
Should be “[P, M]”

261 Line 20, two places  
“[M, P]”  
Should be “[P, M]”

272 Line 14  
“S = {s_1, s_2, \ldots, s_n}”  
Should be “V = {s_1, s_2, \ldots, s_n}”

272 Line 15  
“S is a representative set”  
Should be “V is a representative set”

272 Line 16  
“S(f, R, S)”  
Should be “S(f, R, V)”

272 Line 18  
“S is a representative set”  
Should be “V is a representative set”

272 Line 18  
“S(f, R, S)”  
Should be “S(f, R, V)”

410 Line 8  
“n \in \mathbb{R}”  
Should be “n \in \mathbb{N}”

410 Line -2  
“convergent”  
Should be “convergent”