

P.M.Cohn: Introduction to Ring Theory. Corrections

Superscripts (subscripts) on page numbers indicate lines from the top (bottom).

Front cover. Omit 'An' from the title (to agree with the title elsewhere).

ii. Other books in this series. Omit 'Other'. (Since this book is included in the list).

1<sup>7-8</sup>. Interchange 'Emmy Noether' and 'Emil Artin'.

1<sup>12</sup>. Replace 1931 by 1930.

2. Replace the last sentence ('References...text') by: CA, BA, FA are references to the author's algebra books listed on p.223.

15<sup>1</sup>. Z should be open-face (as in the top line on p.15).

16. Ex.7, line 3, after  $A + B = R$  insert: and R is commutative.

18<sup>7-8</sup>. Replace A.2, p.101 by: BA, Section 7.8.

21, line after display (1.6) and line 11 from foot. Replace 'A.1, Chapter 5' each time by: CA, Section 4.3.

23, 5 lines after second display. The same change should be made.

25, line after statement of Th.1.11. Replace 'A.1, Chapter 5' by: CA, Section 4.7.

40, end of Remark 3. Replace 'A.2, p.142' by: BA, Section 4.6.

41<sup>2</sup>. Replace 'A.3, Chapter 3' by: FA, 2.4.

48, diagram bottom of the page. The  $\phi$  on the left should be replaced by  $\phi_X$  and the  $\phi$  on the right by  $\phi_Y$ .

54<sup>7</sup>. After 'call A' insert: **unital** if it has a one and .

55, Example 6, last line. The initial d should be omitted.

67, penultimate line of proof of Th.2.11. Replace 2.5 by 2.6.

69<sup>15</sup>. In ' $N_r \neq R$ ' replace R by M.

73<sup>1</sup>. After 'opposite' insert: ring.

75, 3 lines above Th.2.24. Replace 4.6 by 4.4.

83, line 3 of Ex.8. After 'of R is' insert: isomorphic to.

89<sup>6</sup>. Hence  $a^\bullet \dots$  The a should be replaced by  $\alpha$ .

91, 4 lines above Cor. 2.37. Replace (2.49) by (2.48).

96, display (2.62). The initial A should be replaced by f.

96, 2 lines and 1 line above the diagram. Replace  $f^\wedge$  by  $h^\wedge$  and  $f^{\wedge\wedge}$  by  $h^{\wedge\wedge}$ .

106, line after last display. The exponent of x,  $n_{r+1} - n_r$  should be  $n_{r+1} - n_i$ .

106<sup>1</sup>. Replace n by r.

109, line 2 of Section 3.2. After 'Wallace 1998, p.52' insert: or CA, Section 2.2.

114, line 2 of Ex.2. Replace 2.2 by 3.7.

115, line 3 of Ex.7. At the beginning of the line, replace  $t_n - 1$  by  $t_{n-1}$ .

124, end of second paragraph. Replace 'A.3, Section 9.2' by: FA, Section 7.2.

124. In three places, line 5, 2 lines above display (3.27) and the line after display (3.27), replace (3.23) by (3.25).

127<sup>4</sup>. Replace 'A.3, Section 9.2' by: FA, Section 7.2.

130, end of first paragraph of 3.6. Replace 'A.2, Chapter 2' by: BA, Chapter 3.

132<sub>1</sub>. Replace 'A.2, Section 9.5' by: BA, Section 10.5.

137, line 1 of Th.4.4. After 'coprime integers' insert: whose product is  $m$ .

138, last line of first proof. Omit  $s$  before (4.5).

146, line 6 after proof of Th.4.9. Replace 'Exercise 8 of Section 1.5' by: Exercise 10 of Section 1.4.

149<sub>3</sub>. Replace 'Section 4.4' by: Section 4.5.

153<sub>3</sub>. Replace 'A.3, Chapter 3' by: FA, Section 2.2.

155, line above Exercises. Replace 'A.3, Chapter 10' by: FA, Chapter 8.

156, 6 lines above last display. Replace '1.4' by: 1.5.

159, display (4.41). At the beginning of the line insert:  $0 \rightarrow$ .

161<sub>5</sub>. Replace '(4.47)' by: (4.46).

162, penultimate line of Ex.3. Replace 'A.2, Section 9.5' by: BA, Section 10.5.

163, first line of Section 4.6. Replace 'Theorem 4.7' by: Theorem 4.17.

167<sup>9</sup>. Replace 'Exercise 4.6' by: Exercise 6.

168<sup>3</sup>. Replace 'A.3, Chapter 3' by: FA, Section 2.4.

168<sup>7</sup>. Replace 'A.3, Section 6.6' by: FA, Section 4.6.

170, line 2 of Th.4.27. Replace  $s \equiv 0 \pmod{p}$  by  $p \equiv 0 \pmod{s}$ .

172<sup>7</sup>. Replace 'Section 3.4' by: Section 3.5.

180, 4 lines after second display. Towards the end of the line, replace ' $xu = 0$ ' by:  $yu = 0$ .

180, 2 lines above display (5.6). End of line, 'rank' should be italic.

185, 3 lines after first proof. Before '**function field**' insert: **rational**. (In boldface)

186, 6 lines above last display. Replace 'A.2, Chapter 3' by: BA, Chapter 7.

186<sub>2-1</sub>. Replace 'A.3, Section 7.1' by: FA, Section 5.1.

187<sub>2</sub>. Replace 'A.2, Section 3.8' by: BA, Section 7.8.

204, **1.2**, line 3 of Ex.1. After 'solution' insert:  $y =$ .

204, **1.2**, line 2 of Ex.3. Replace 'positive integer' by: prime number.

213, line 1 of **4.1**, Ex.6. Before 'they cannot' insert: if  $C \neq 0$ ,  $I$ , .

215, **4.5**, line 1 of Ex.9. Insert an opening bracket ( after  $J$  .

216, **4.7**, At the end of Ex.6, add: Clearly  $R$  has type  $(1, n-1)$ .

216, **5.1**, In 4 places of Ex.3, replace  $\dim$  by  $\text{rk}$ .

p.223, Entry under Cohn, PM. This should be replaced by the following items.

Cohn, PM (2000) Classic Algebra. John Wiley & Sons, Chichester (referred to in the text as CA).

Cohn, PM (2002) Basic Algebra, Groups, Rings and Fields. Springer, London (referred to in the text as BA).

Cohn PM (2003) Further Algebra and Applications. Springer, London (referred to in the text as FA).

p.227, Leibniz, G.W. add: Freiherr von.



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