Revision Summary for Edition 1.3

This is a summary of all the changes made to Edition 1.2 to produce Edition 1.3 excluding typographical corrections, minor English and grammatical adjustments, and bibliographic updates. The numbering is with respect to Edition 1.2 unless indicated otherwise.

Chapter 1

- 1. The first footnote is new.
- 2. Changed the notation on p. 12 for the multinomial coefficients.
- 3. A calculation of $h_i(t)$ has been added just below (1.3).
- 4. An additional two pages of material was added at the end of the chapter to review relative degree and zero dynamics.
- 5. The definition of Gevrey order in Problem 1.1.2 was moved to the start of Section 1.2.
- 6. Problem 1.4.5 has been added.

Chapter 2

- 1. Added a comment regarding orthonormality just before Example 2.20.
- 2. Corrected typo in caption of Fig. 2.5(b): "Noncommutative" to "Cocommutative".
- 3. Corrected typo in (2.31): g_1 and g_2 should have been g and g', respectively.
- 4. Added the last line to the calculation involving (2.33).
- 5. Changed A to X^* in Problem 2.4.4.
- 6. Added the definition of a subword to the remark following Problem 2.4.4.

Chapter 3

- 1. A footnote was added at the end of the proof for Theorem 3.1.
- 2. Equation (3.8) in the new edition defining the minimal growth constant has been added.
- 3. The proof of Theorem 3.4 was expanded and corrected.
- 4. Added a reference in the proof of Theorem 3.5 to Example 5.15.

- 5. The introduction of the radius of convergence concept for formal power series just before Lemma 3.2 in Section 3.5 has been relocated to Section 3.1 and expanded. Consequently, the theorems after Theorem 3.2 have been renumbered in the new edition.
- 6. Theorem 3.11 in Section 3.3 is new.
- 7. The discussion regarding Pringsheim's Theorem in Example 3.20 was also moved to Section 3.1.
- 8. Example 3.25 was replaced by two simpler examples.
- 9. Lemma 3.4 was moved to directly follow Theorem 3.24.
- 10. The language in Theorem 3.25 (and correspondingly Problem 3.7.4) has been made more precise.
- 11. In the proof of Theorem 3.28, $\hat{\Delta}$ is now called a *coaction* rather than a *coproduct*.
- 12. Problem 3.3.3 has been added.
- 13. Problem 3.4.2 has been added.
- 14. Problem 3.7.6 has been added.

Chapter 4

- 1. Added a footnote to Definition 4.4.
- 2. Problem 4.3.1 has been added.

Chapter 5

This chapter is new.