Minor corrections and typos:

1. Definition of differential index in Section 2.1.2: Typically the differentiation index is defined to be the **minimum number** of differentiations needed to transform the DAE to its underlying ODE.

2. page 13, line 15: ... reduce the system to DAEs ... (delete "a")

3. page 26, text below index-2 DAE and index-3 DAE: The Jacobian $g_y f_z$ is assumed to be non-singular for all t **and all** x **and** z**.** Likewise $h_y g_x f_z$ is non-singular for all t **and all** x**,** y**,** z.

4. In Section 2.2.1.1. the code GENDA by Mehrmann/Kunkel could be added, see https://www3.math.tu-berlin.de/multiphysics/Software/GENDA/

5. page 47, Definition 4: $D \in \mathbb{R}^{m \times m}$ (instead of $m \times n$)

6. page 48, lines 1,2: 10^{20} instead of 10^{-20}.

7. page 48, Example 16 and Figure 3.1: number of non-zero values is 1910 in Example 16 and 1887 in Figure 3.1. Please unify.

8. page 58, in the middle: $NA = U_1 Q^\top$ instead of $NA = U_1$

9. page 59, Algorithm 9: The permutation matrices P and Q depend on t and x as well (could be added to make the presentation consistent).

10. The example in 4.2.3 contains some errors, I believe, and should be revised.

11. page 64, 4.4.3: "Proving" instead of "Proofing"

12. page 71, (5.2): $\Phi_q(q,t)p$ (p is missing)

13. page 71, line below (5.3): The notation Φ_{qt} can be confused with the second partial derivative of Φ w.r.t. q and t, but here the meaning is different and Φ_{qt} should also depend on either q' or p.

14. page 74, line 4 of text below figure: reference should be to Fig. 5.2 (not 5.1)