

Here are known misprints (I am really sorry and apologize for the inconvenience they may have caused) and amplifications to the book ‘Function Field Arithmetic’. If you find any corrections, not listed here, I will be grateful to receive those.

Misprints which are non-obvious and may confuse reader are in bold face.

1. Page viii, 4th line of paragraph 3 from bottom: Drop ‘a’ (June 04)
2. Pa. 9, 1.2, third para.: ‘by a finite number of appropriate quadratic transformations’ should be ‘by a finite number of blow-ups’.
(Though blow up equations are quadratic, ‘quadratic transformation’ is a standard terminology used for standard Cremona transformations. These are used to get from a singular plane model of a curve to plane model with ordinary singularities. This is usually the best you can do with plane model and quite useful to do calculations (See books by Fulton or Araberello-Cornabala- Griffiths-Harris or Walker or Abhayankar or Hartshorne). One gets non-singular (not necessary plane model) model by blowing ups which separate these different tangents at ordinary singularities. Curve can be embedded in P^3 , and generic projection (over algebraically closed field) to plane gives model with ordinary singularities.) (May 04)
3. Pa. 12, last para.: ‘poles that functions can have at P’ should be ‘poles that functions, with no other poles, can have at P’. In the next sentence, ‘zero of order’ should be ‘zero at P of order’. (Apr04)
4. Pa. 37, 2.2.4 : $\phi\rho_a = \rho_a\phi$ should be $\phi\rho_a = \rho'_a\phi$. (Apr04)
5. Pa. 55, in statement of theorem 2.10.3, the reference 2.11.2 should be replaced by 2.11 (b) (May 07)
6. Pa. 137, first displayed eqn: drop rightmost d_τ (Sep04)
7. Pa. 149, last line: $[n]!$ used here is defined in the next line. (Nov04)
8. Pa. 151, para. 3 from bottom: Section 15 should be Section 14. (Sep04)
9. Pa. 165, first displayed equation: Second $\beta(k)$ should be $\beta(f)$. (Apr07)

10. Pa. 170, remark 5.4.10: ‘These results imply class groups components vanishing by 5.3.8’ should be better phrased and amplified as ‘these results (5.4.6-5.4.8) imply non-vanishing of certain class group components, for all φ -th cyclotomic fields, for all φ , by 5.3.8, in the class number one case. The thesis of Diaz-Vargas referred in 5.4.8 (ii) gives more examples using zeta functions defined using all ideals rather than just principal ideals in the general case’ (May 04)
11. Pa. 175, In the statement and proof of theorem 5.6.3, minus sign in front of the Laurent expansion at $x = 0$ is missing. (Oct 05).
12. Pa. 199, para.-2 of 5.11: ‘maximl’ is ‘maximal’. (Nov04)
13. Pa. 215, insert ‘The l -adic etale cohomology of the limit M^r of the projective system of moduli M_l^r of 3.7 has action of Galois group of K as usual, as well as action of Gl_r of finite adeles of K , by the lattice/torsion connection.’ before the paragraph ‘Drinfeld matched...’. After the paragraph insert ‘This was fully successful for $r = 2$, when M^2 is a curve and compactification issues are simple.’
 Later on this page, ‘Pink later proved’ should be replaced by ‘Pink, assuming resolution of singularities, and Fujiwara, without this assumption, later proved’. (Nov04)
14. Pa. 229, third para. 4.15(b) should be 4.14(b). (Sept04)
15. Pa. 247, last displayed line: switch $[a]$ and $d[a]$ (Nov04)
16. Pa. 250, 2nd sentence last para., ‘ $j \leq 0$ ’ should be ‘ $j \geq 0$ ’. (Thanks to Furusho for pointing this out.)(Feb 06)
17. Pa. 255, first displayed equation ‘ exp_n ’ is missing to the right of the first equation. (Feb. 06)
 Remarks 7.6.2 (1), 2nd line $x_n - i$ should be x_{n-i} . (Thanks to Furusho for pointing this out.) (Feb. 06)
18. Pa. 273, first line: 4.16 should be 4.15. (Jan 05)
19. Pa. 281, last but one para. bracket misprinted in $f^{(n)}$. (may 05)

20. Pa. 281-282, In last displayed formula of p 281 and third displayed formula on p 282, interchange t and T . In third and fifth displayed formula on p 282, change e^* to e_* . (May 05).
21. Pa. 283, last para. put space between ‘entry’ and ‘Res’. (May05). Last line: correct indexing is $a_i = t^{i-1}$, $b_j = t^{d-j}$. (Aug05).
22. Pa. 296, second sentence before Theorem 8.9.3, ‘ p does not divide h ’ should be replaced by ‘ p does not divide h^- ’. (Aug 07)
23. Pa. 304, second para. ‘second section’ should be ‘third section’. (Mar. 07)
24. Pa. 307, Displayed equation (1) and Rem. 9.2.1 (1): Common notation a'_{n+1} for α_{n+1} is used in remark. In the displayed equation, q_{n+1} should be $q'_{n+1} := a'_{n+1}q_n + q_{n-1}$, another common notation (but not defined here). (march 05)
25. Pa. 311, Remark 9.2.4 (2): In ‘if’ part, the tails are the ‘same’ or are ‘related by alternating signs’ as explained on second para. of pa. 307. The ‘same’ can be replaced by this in ‘if and only if’ also. (May 06).
26. Pa. 338, First line after remarks: 5.9 should be 5.10. First displayed equation: condition $n_1 \neq n_2$ should be dropped. (Oct05). In the next line, 5.10.2 should be 5.10.12 (Dec06).
27. **Pa. 344, Example 11.1.5, (1) in the automata table, entries in the column headed by s_2 should be s_3, s_4 rather than s_2, s_3 respectively. In (2), line 2, s_2 and s_3 should be switched,(so that $Out(s_2) = 1$ and $Out(s_3) = 0$.)** (August 04)
28. Pa. 348, in Theorem 11.2.2 (5), n'_{i+1}/n_i should be n'_{i+1}/n'_i . In the hypothesis of the theorem it is implicit that n_i is an increasing sequence (and thus \mathcal{S} is infinite). (June 05)
29. Pa. 349, last paragraph, ‘turns out to be a trivial monomial’ should have been rephrased as (as mentioned on page 351) ‘turns out to be a trivial monomial after a preliminary reduction as in the statement of Theorem 4.6.4, namely translating the arguments by integers (which

multiplies the monomial by a rational function) to get monomial in gamma at fractions which are their own 'brackets'. (Apr 07)

30. Pa. 353, whole first paragraph of 11.4, 'First, ... when $p = 2$ ' should not have been there and can safely be dropped altogether. (It is editing mistake. It is actually another proof (in case $p = 2$) mentioned later in Remark 11.4.3 (2) of Theorem 11.4.1.) (May 06)
31. Backcover: On line 7, 'Basics' should be Basic. (June 04)