

Errata to the book «Elliptic Functions and Elliptic Integrals» by Viktor Prasolov and Yury Solovyev

Page 5. Line 1, should be $p_2 = CD$ and $p_3 = EF$.

Page 45. Equation (7.8), RHS, numerator, s.b. $\tan(\varphi)\Delta(\psi) + \tan(\psi)\Delta(\varphi)$.

Line 8, 1st equation, RHS, s.b. $\tan(\varphi)\Delta(\psi)$ and 2nd equation, RHS, s.b. $\tan(\psi)\Delta(\varphi)$.

Page 53. 6th last line, s.b. $a \sin \varphi, y = b \cos \varphi$.

3rd last line, s.b. $M = (a \sin \varphi, b \cos \varphi)$.

Page 113. Line 21, equation, s.b. $y^2 = x^3 + ax + b$.

Page 119. Line 4, 1st equation, RHS, numerator, index 0 missing on y .

Page 120. Last line, LHS, s.b. $x^3 + ax + b - (px + q)^2$.

Page 121. Line 9, RHS, numerator, index 1 missing on x .

Line 11, equation (4.3), twice, x missing index 1.

Line 16, eqn. (4.4), numerator, remove 3 before x_1^2 .

9th last line, in parenthesis, 2nd term, change u_1 to u_2 .

8th last line, 2nd term, missing factor α after parenth.

3rd term, missing power 2 on u_1 .

4th last line, s.b. (iii) $u_1^2 + 2u_0u_2 - au_2^2 = 0$.

Last line, s.b. $u_1^3 + au_1u_2^2 + bu_2^3 = u_2$.

Page 122. Line 6, eqn. after **Moreover**, s.b. $u_2 = \frac{1}{y'}$.

Line 7, RHS, numerator, 2nd term, s.b. a not α .

P. 132. line 10, RHS, 2nd term, last term, last term, s.b. $\frac{a^2}{4}$.

Line 11, RHS of eqn., in parenthesis, again s.b. $\frac{a^2}{4}$.

Line 16, LHS, again s.b. $\frac{a^2}{4}$ not $\frac{a^2}{2}$.

P. 136. line 15, s.b. x_2 not x_3 .

P. 138, line 2, RHS, for both numerators under radicals, 1st term, s.b. 7 not -7 ; for both denominators under radicals, s.b. 2 not 6.

P. 139, 3rd last line, s.b. $p - 1$ not $p - 2$.

P. 143, line 17, s.b. $u_0, u_2, \dots, u_{s-1}, \rho^s$ not $u_0, \rho, u_2\rho^2, \dots, u_{s-1}\rho^{s-1}$.

P. 158, line 10, RHS, inside parenthesis, s.b. $1 - \frac{1}{\tau}$.

line 11, 1st eqn., LHS, 2nd factor, s.b. $f\left(1 - \frac{1}{\tau}\right)$.

P. 161, line 23 (i.e. §7.11, line 2), LHS, s.b. $f\left(-\frac{5}{\tau}\right)$.

line 23, LHS, s.b. $e^{\pm \frac{5\pi i}{12}} f\left(\frac{\tau \pm 2}{5}\right)$.

last line, s. begin $v_{\pm 2} \mapsto e^{\pm \frac{5\pi i}{12}} f\left(\frac{\pm 2\tau - 1}{5\tau}\right)$.

P. 164, 9th last line, s. begin $\tau \mapsto -\frac{1}{\tau}$.

P. 165, line 23, s. begin $\tau \mapsto -\frac{1}{\tau}$.

P. 167, last line, wrong index, change v_4 to v_2 .

P. 168, line 5,LHS,wrong sign, s.b. $v^4 - a^5v^3 - a^2v^2 + a^7v + a^4$.

P. 170, 8th last line, wrong symbol, change \rightarrow to \mapsto .

P. 171, line 21, s. begin $|\tau'| \geq 1$.

P. 176, 9th last line, the prime in parenthesis belongs on the letter τ in the denominator.

P. 177, 2nd line, s.b. **essential singularities** not **essentially**.

5th last line, RHS, limits of integration, change $\frac{1}{2}$ to 1.

last line, again, limits of integration, change $\frac{1}{2}$ to 1.

27th April 2021