

Errata and corrections to the book “Representation of Lie groups and special functions”, Vols. 1, 2, 3, by N. Ja. Vilenkin and A. U. Klimyk (Kluwer, 1991, 1993, 1992)¹

(The corresponding items are given by a number of page and a number of line; a number of line with sign “-” means that this line number is taken from a bottom)

Volume 1

- p. xix, l. -18: replace “lead” by “led”
- p. xxi, l. 7 and l. 8: replace “Gordon” by “Gordan”
- p. 9, l. 16: replace c_{jk}^k by c_{ji}^k
- p. 12, l. 18: add $e \circ x = x$
- p. 13, l. 9: replace 1.0.9 by 1.0.10
- p. 13, l. -18: replace \mathfrak{L}_1 by \mathfrak{L}_k
- p. 14, l. 9: replace AC_2 by C_2A
- p. 17, l. 2: replace $(A\mathbf{x})(\mathbf{y})$ by $(A\mathbf{y})(\mathbf{x})$.
- p. 17, l. -11: replace “homomorphism” by “anti-homomorphism”
- p. 17, l. -3 and l. -4: replace \mathfrak{R} by \mathfrak{S}
- p. 20, l. 72: replace t_1 by t
- p. 21, l. -4: replace $d\mathbf{x} = (x_1, \dots, x_n)$, $\mathbf{x} = dx_1 \dots dx_n$ by $\mathbf{x} = (x_1, \dots, x_n)$, $d\mathbf{x} = dx_1 \dots dx_n$
- p. 27, l. 13: replace $\mathbf{y} \in D(A)$ by $\mathbf{x} \in D(A)$
- p. 27, l. -1: replace $u_{ij}\overline{u_{ij}}$ by $u_{ik}\overline{u_{jk}}$
- p. 28, l. 14: replace “measureable” by “measurable”
- p. 29, l. -15: replace $(\phi, \psi)_+ k$ by $(\phi, \psi)_k$
- p. 29, l. -13: replace “countable-Hilbert” by “countably Hilbert”
- p. 35, formula (1): replace \mathbf{x} by \mathbf{z}
- p. 39, l. 5: replace \mathbf{a} by \mathbf{A}
- p. 42, l. 4: replace “preserve all of a Lie algebra” by “are Lie algebra homomorphisms”
- p. 42, l. 10: replace “form” by “forms”
- p. 42, l. -14: replace “the” by “a”
- p. 42, l. -10: replace “In” by “For”
- p. 43, l. -7: replace 1.1.7 by 1.1.8
- p. 47, l. -8: replace “formula (2)” by “Example 10”
- p. 53, l. 13: replace $ISO(p, q)$ by $ISU(p, q)$
- p. 53, l. -9: replace $0(k)$ by $O(k)$
- p. 55, l. 4: replace $0(p-k) \times 0(q-k)$ by $O(p-k) \times O(q-k)$
- p. 56, l. 4: replace $p_q^2 = p$ by $p_1^2 = p$
- p. 60, l. 7: replace \mathfrak{so} by \mathfrak{g} and $\mathfrak{sl}(n, \mathbb{C})$ by $\mathfrak{sl}(2n, \mathbb{C})$
- p. 66, l. -9: replace 1.0.11 by 1.0.12 and “function” by “functions”

¹This list is composed by A. U. Klimyk. I am grateful to Prof. T. Koornwinder and Dr. E. Koelink for presenting their list of errata and corrections.

- p. 67, l. 3: add after “functions” the word “from”
- p. 69, l. –1: replace 1.0.10 by 1.0.11
- p. 70, l. 7: replace $\delta_{;n}$ by δ_n
- p. 71, l. 12: replace $[(T_1 \otimes T_2)(g)](g)A = T_1(A)T_2'(g)$ by $[(T_1 \otimes T_2)(g)]A = T_1(g)(A)T_2'(g)$
- p. 71, l. 19: replace “associated” by “associate”
- p. 72, l. –4: replace 1.0.10 by 1.0.11
- p. 76, l. –8: replace $T(g)$ by $T(t)$
- p. 77, l. –12: replace X by A
- p. 86, l. 9: replace \mathbb{R} by \mathbb{R}^n
- p. 86, l. –10: replace \mathfrak{M} by \mathfrak{N}
- p. 88, l. 18: replace “find representations” by “find a representation”
- p. 89, l. 4: replace “antoher” by “another”
- p. 95, l. –13: replace g by G
- p. 95, l. –12: replace “to the” by “to an”
- p. 96, l. 14: replace \mathfrak{M}'_j by \mathfrak{M}'_i
- p. 96, l. –3: replace $T(g\mathbf{x})$ by $T(g)\mathbf{x}$
- p. 96, l. –1: replace grM_1 by M_1
- p. 97, l. 19: replace bA by \mathbf{A}
- p. 97, l. –5: replace $t_{\mathbf{u}\mathbf{v}}^\beta$ by $\overline{t_{\mathbf{u}\mathbf{v}}^\beta}$
- p. 98, l. 9: replace \mathfrak{M}_α by \mathfrak{L}_α
- p. 98, l. –6: replace Q by Q_λ
- p. 98, l. –1: replace \mathbf{a} by \mathbf{A}
- p. 103, l. 14: remove “called”
- p. 103, l. –5: replace “are” by “is”
- p. 104, l. –12: replace $\sum_{j=1}^{d_\alpha}$ by $\sum_{i=1}^{d_\alpha}$
- p. 105, l. –6: replace g by G and \mathfrak{L}_1 by \mathfrak{L}^1
- p. 108, l. 3: replace $\chi_\alpha(g)$ by $\overline{\chi_\alpha(g)}$
- p. 109, l. 6–9: permute titles of section 3.1 and of subsection 3.1.1
- p. 109, l. 16: replace “denoed” by “denoted”
- p. 109, l. –9: replace “representations” by “representation”
- p. 112, l. –5: replace A^{-1} by $A^{-1}h$
- p. 114, l. –12: replace $e^{i\pi k - i\pi n/2}$ by $e^{-i\pi k - i\pi n/2}$
- p. 114, l. –11: replace L_P^λ by L_P^k
- p. 121, l. –1: replace $e^{-\lambda z}$ by $e^{-i\lambda z}$
- p. 124, formula (1): replace $\int_{-\infty}^{\infty}$ by \int_0^{∞}
- p. 126, l. 14: replace $\int_{-\infty}^{\infty}$ by \int_0^{∞}
- p. 126, l. –9: replace (-1) by $(-z)$
- p. 131, l. 3: replace “ R_λ ” by “of R_λ ”
- p. 132, l. 6: replace dx by dz

- p. 135, formula (4): replace $\int_{c_1=i\infty}^{c_1+\infty}$ by $\int_{c_1-i\infty}^{c_1+\infty}$
- p. 137, l. -6: replace du by dt
- p. 137, l. -5: replace dt by du
- p. 138, l. 2: replace z by x
- p. 139, formula (1): replace e^{-xu} by e^{-xt}
- p. 142, l. 7: replace ${}_pF_0(z)$ by ${}_0F_0(z)$
- p. 145, l. -4: replace $t = 1 = s$ by $t = 1 - s$
- p. 146, formulas (3) and (4): replace the argument $\frac{z}{1-z}$ by $\frac{z}{z-1}$
- p. 146, l. 9: replace $z^{\alpha-1}$ by $z^{\gamma-1}$
- p. 146, l. -4: replace γ by Γ
- p. 148, l. 2: replace (11) by (13)
- p. 151, l. -10: replace “integral” by “integrals”
- p. 152, formula (20): replace $e^{-i\nu/\pi/2}$ by $e^{-i\nu\pi}$
- p. 155, l. -6: replace $2^{\frac{p}{2}+\frac{1}{4}}$ by $2^{\frac{p}{2}+\frac{1}{4}}z^{-1/2}$
- p. 156, l. -2: add at the beginning of the line “where $C_n^0(z) := \lim_{\alpha \rightarrow \infty} \alpha^{-1} C_n^\alpha(z)$,”
- p. 160, l. -2: replace $f(x)$ by $f(t)$
- p. 162, l. 2: replace 3.4.5 by 3.4.6
- p. 163, l. -7 and l. -4; p. 164, l. 3: replace $p + 1$ by $p - 1$
- p. 164, l. 8: replace dx by dy
- p. 168, formula (4): replace $r_{mn}^R(g)$ by $t_{mn}^R(g)$
- p. 171, l. 7: replace “ $M(x_1, y_1)$ and $N(x_2, y_2)$ ” by “ $M(x_1, x_2)$ and $N(y_1, y_2)$ ”
- p. 177, l. -6: replace $\operatorname{Re}(\lambda - \mu)$ by $\operatorname{Re}(\mu - \lambda)$
- p. 177, l. -1: replace last $d\theta$ by $d\mu$
- p. 179, l. -6: replace “funcitons” by “functions”
- p. 180, l. 2: replace $g = 0$ by $t = 0$
- p. 183, formula (4): replace $e^{i\pi/2}$ by $e^{-i\pi/2}$
- p. 183, l. -6: replace $\operatorname{Im} z > 0$ by $\operatorname{Im} z = 0$
- p. 187, l. 9: replace (6) by (5)
- p. 187, formula (23): replace $\int_{x^2/2}^0$ by $\int_{x^2/2}^\infty$
- p. 192, l. -2: replace $x^2 e^{it/2}$ by $x^2 e^{-it/2}$
- p. 198, formula on l. 2 and l. 3: put number (9) for this formula
- p. 200, formula (2): replace a_{ji} by a_{jk}
- p. 201, formula (7''): put sign minus before the last term
- p. 207, l. -6: replace $= a_-$ by $= -a_-$
- p. 211, l. 8: replace $A(A_+f)$ by (A_+F)
- p. 211, formula (7): replace \hat{A}_- by \hat{A}_+
- p. 212, formula (4): replace r by t
- p. 212, l. -6: replace “(7) of Section 4.1.3” by “(5) of Section 5.1.3”
- p. 215, l. 3: replace λ^1 by λ

- p. 221, l. 6: replace $\sum_{k=1}^{\infty}$ by $\sum_{k=0}^{\infty}$
- p. 222, l. 2: replace q by z
- p. 224, formula (13): replace $\Psi(\alpha; \gamma - 1; z)$ by $\Psi(\alpha; \gamma + 1; z)$
- p. 224, l. 10: replace ψ by Ψ
- p. 230, l. 6: replace $e^{x^2/4}$ by $e^{z^2/4}$
- p. 231, l. 5: replace $x_1 = x_1\sqrt{2x_1}$ by $s_1 = x_1\sqrt{2r_1}$
- p. 232, l. -1: replace $e^{i\psi z}$ by $e^{i\psi} z$
- p. 235, l. -1: replace $H_n(z)H_k(w)$ by $H_k(z)H_k(w)$
- p. 237, l. 3: replace $g_+(t)$ by $g_+(x)$
- p. 240, l. 11: replace $\mu - \nu$ by $\mu - \lambda$
- p. 241, l. -1: replace $\frac{1}{2\Gamma(2\mu+1)}$ by $\frac{1}{\Gamma(2\mu+1)}$
- p. 243, l. 3: replace $2\mu - \tau_1$ by $2\mu\tau_1$
- p. 248, formula (4): replace $(n - k + s)!$ by $s!(n - k + s)!$
- p. 248, l. -10: replace L_k^α by L_k^m
- p. 255, l. 10 and l. 11: replace e^{-xx} by e^{-xz}
- p. 256, l. 4: replace $y = 1$ by $y = -1$
- p. 259, l. -8: replace L_m^{n-m} by $L_m^{n-m}(y)$ and $k(2y)$ by $(2y)$
- p. 264, l. -4: replace $L - n^{x-n}(a)$ by $L_n^{x-n}(a)$
- p. 265, l. -6: replace “fixed a ” by “fixed positive a ”
- p. 269, l. -11: replace $(\varphi, \theta\psi)$ by (φ, θ, ψ)
- p. 269, formula (4), second line of the matrix: replace $e^{i(\varphi+\psi)/2}$ by $e^{-i(\varphi+\psi)/2}$
- p. 270, l. 2: replace $u(\varphi, \theta\psi)$ by $u(\varphi, \theta, \psi)$
- p. 270, l. -15: replace $(\prime\prime)$ by $(9\prime\prime)$
- p. 271, formula (13'): replace $\sin t_1$ by $\sinh t_1$
- p.278, l. -12: replace 4.1.3 by 4.1.2
- p.281, l. -11: add to the end of the line “Formulas (1)–(6) are true for the representations T_l of $GL(2, \mathbb{C})$.”
- p. 283, l. -9: replace $\alpha x + y$ by $\alpha x + \gamma$
- p. 284, l. 2: replace $e^{ik\varphi}$ by $e^{-ik\varphi}$
- p. 285, l. 8: replace $(-\ell - m)!$ by $(\ell - m)!$
- p. 285, formula (5): replace $n\varphi$ by $n\psi$
- p. 289, l. 8: replace $\ell + n;$ by $\ell + 1;$
- p. 292, formula (8): replace N by n
- p. 292, l. -4: replace 6.3.8 by 6.3.5
- p. 294, l. 10: replace (5) by (1)
- p. 302, l. -10: replace T_ℓ^0 by \mathfrak{D}_ℓ^0
- p. 304, l. -3: replace $-\ell - \varepsilon + k$ by $\ell - \varepsilon + k$
- p. 305, l. 2: replace 6.4.4 by 6.4.3
- p. 310, l. 12: replace $g(\gamma\omega)$ by $g(\gamma, \omega)$
- p. 311, l. 5: replace (5) by (4)

- p. 315, formula (4): replace Γ by Γ'
- p. 320, formula (1): replace $1/2$ by $-1/2$
- p. 327, l. 11: take out m at the end of the line
- p. 327, formula (2): replace $\cosh \theta_1 \cosh \theta_2$ by $\cos \theta_1 \cos \theta_2$ and $e^{-k\varphi_2}$ by $e^{-ik\varphi_2}$
- p. 328, l. 10: replace $-x_3^2$ by $+x_3^2$
- p. 329, l. -4: replace (8) by (7)
- p. 330, l. 3: replace “formulas (22) and (22’)” by “formula (4)”
- p. 330, l. 8 and l. -4: replace 4.4.8 by 4.3.8
- p. 331, l. 8: replace 4.4.8 by 4.3.8 and (3) by (1)
- p. 335, l. -2: replace $(-1)^{m+n}P_{mn}^\ell(z)$ by $(-1)^{m+n}P_{nm}^\ell(z)$
- p. 338, l. -11 and l. -12: replace 6.7.3 by 6.3.7 and 6.3.7 by 6.7.3
- p. 340, l. 11: replace $P_n^{(\alpha,\beta)}$ by $P_{n-1}^{(\alpha,\beta)}$
- p. 344, l. -1: replace $2 - \cos \theta$ by $w - \cos \theta$
- p. 345, l. 8: replace $m \leq n \leq 0$ by $m \geq n \geq 0$
- p. 349, l. 11: replace δ by Δ
- p. 349, l. -10: replace $(n-x)s$ by $(N-x)s$
- p. 350, l. 3: replace C_N^s- by $C_N^s =$
- p. 350, l. -12: replace $-s;$ by $-s,$
- p. 351, formula (6): replace z by x
- p. 353, l. -8: replace 4.5.9 by 6.3.12
- p. 355, l. -4: replace (2) by (1)
- p. 356, formula (12): replace $\mathcal{K}(x; p, \tau)$ by $\overline{\mathcal{K}(x; p, \tau)}$
- p. 358, formula (1): replace t_{mn}^ℓ by t_{mm}^ℓ
- p. 359, formula (5): replace $\varphi - \psi$ by $\varphi + \psi$
- p. 363, l. 10: replace “representation” by “representations”
- p. 363, l. -10: replace \mathbf{T}_ℓ by \mathbf{T}_{ℓ_1}
- p. 363, l. -4: replace 6.19.2 by 6.9.2
- p. 364, l. 2: replace m_1 by m
- p. 365, l. -1: replace 2^ℓ by $2^{-\ell}$ and $-1/2$ by $1/2$
- p. 371, l. 3: replace φ by ψ
- p. 372, l. -8: replace $(\ell + 1)^\ell$ by $(\ell + 1)^k$
- p. 377, l. 9: replace Ω_1 by Ω_-
- p. 378, l. 8: replace $e^{-\lambda x}$ by $e^{-i\lambda x}$
- p. 381, l. -6: replace $-B_-$ by $-B_+$ and $k2B_3$ by $2B_3$
- p. 384, l. 6: replace f by F
- p. 384, l. -6: replace (14) by (8)
- p. 385, formulas (2) and (3): replace K^{-22} by K^{22}
- p. 389, l. 6: replace f by F
- p. 390, l. -11: replace 3.5.2 by 3.5.3
- p. 391, l. -2: replace T_χ by R_χ

- p. 394, l. 2: replace $(1 - x)$ by $(1 + x)$
- p. 394, l. -8: replace $\tan^{2(\lambda+\mu+2\tau)}$ by $\tan^{2(\lambda+\mu+2\tau)} \theta$
- p. 394, l. -1: replace ν by μ
- p. 395, l. 9: replace $\Gamma(\lambda)\Gamma(\lambda)$ by $\Gamma(\lambda)\Gamma(\mu)$
- p. 400, l. 8: replace γ by Γ
- p. 402, l. -6: replace α by λ
- p. 403, l. -8: replace \int_0^∞ by \int_s^∞
- p. 403, l. -5: replace \int_0^t by \int_s^t
- p. 403, l. -4: replace \cos by \cosh
- p. 410, l. 1: replace K_-^{22} by K_{+-}^{22}
- p. 411, formula (10): replace e^{-2t_1} by $e^{-2t_1} =$
- p. 416, l. 12: replace h by θ
- p. 418, l. 2: replace $\tanh \theta$ by $\tanh^{-1} \theta$
- p. 418, l. 6: replace $\omega - \mu + 1$ by $\omega - \mu$
- p. 418, l. -6: replace $a - 1$ by $a + 1$
- p. 420, l. -4: replace $\cosh^{2\mu-2\omega+2}$ by $\sinh^{2\mu-2\omega+2}$
- p. 422, l. -5: replace $\cosh^{-\lambda+2\tau}$ by $\cosh^{\lambda+2\tau}$
- p. 424, l. 9: replace $\delta - \beta t_2$ by $\delta - \beta t_1$
- p. 428, l. 2: replace (1) by (-1)
- p. 428, l. 10: replace ζ by $g_+(t)$
- p. 433, l. 3: replace $\sqrt{\lambda\mu}$ by $2\sqrt{\lambda\mu}$
- p. 442, l. -8: replace W by s
- p. 443, l. 3: replace *tau* by τ and *times* by \times
- p. 443, l. 6: replace $+$; by $+1$;
- p. 444, l. 3: replace (11) by (12)
- p. 448, l. 6: replace $t + 1/2$ by $\tau + 1/2$
- p. 448, l. 10: replace γ by Γ
- p. 450, l. -5: replace (-1) by $(-i)$
- p. 451, l. 5: replace $g_1 g_2$ by $g_1 g g_2$
- p. 455, l. -2: replace $e^{2\pi\tau\pi}$ by $e^{2i\tau\pi}$ and $\Gamma(1\mu)$ by $\Gamma(1 - \mu)$
- p. 464, l. 10: replace \hat{T}_ℓ by \hat{T}_χ
- p. 466, l. 4: replace $I_- = \frac{i}{2}x^2$ by $I_- = -\frac{i}{2}x^2$
- p. 475, l. -12: replace “functions” by “function”
- p. 475, l. -6: replace “toi” by “to”
- p. 483, l. -2: replace \cos by \cosh
- p. 483, l. -1: replace c_{km}^ℓ by c_{km}^χ
- p. 485, l. -10: replace $(2r + p + q)$ by $(2r + p + q - 1)$
- p. 493, l. -4: replace $\sqrt{\lambda}$ by $\sqrt{2}$
- p. 495, l. 6 and l. 7: replace \cos by \cosh
- p. 495, l. -3: replace $\int_{a-i\infty}^{a+i\infty}$ by $\int_{ia-\infty}^{ia+\infty}$

- p. 495, l. -2: replace (5) by (4)
- p. 503, l. 10: replace h_2 by y_2
- p. 503, l. -12: replace ell by ℓ
- p. 503, l. -1: replace $x_1^{\ell_j - \ell}$ by $x_1^{\ell_1 - j}$
- p. 505, l. -14: replace $(-1)^{\ell_1 - \ell_2 + j + j}$ by $(-1)^{\ell_1 - \ell_2 + j + k}$
- p. 506, l. 8: replace $(-1)^{\ell_1 - \ell_2 + k - 1}$ by $(-1)^{\ell_1 - 2\ell_2 + k - 1}$
- p. 506, l. 9: replace $\ell + \frac{\ell_1 + \ell_2 + j + k}{2}$ by $-\ell + \frac{\ell_1 + \ell_2 + j + k}{2}$
- p. 507, l. 13: replace $t_{kk'}^{\ell\ell\ell_2}(u)$ by $t_{kk'}^{\ell_2}(u)$
- p. 508, l. 9: replace $2^{\ell_1 + \ell_2 + 1}$ by $2^{\ell_1 + \ell_2 + \ell + 1}$
- p. 510, l. 1: replace (3) by (1)
- p. 511, l. 4: replace $(\ell - \ell_1 - k)$ by $(\ell - \ell_1 - k)!$
- p. 511, l. -8: replace $(2\ell_2 - k)!$ by $(\ell_2 - k)!$
- p. 518, l. -8: replace $(-1)^{\ell - 2 - \ell - j}$ by $(-1)^{\ell_2 - \ell - j}$
- p. 519, l. -12: replace $= 1$ by $= a$
- p. 519, l. -11: replace $+d$ by $= d$
- p. 519, l. -9: replace b_2 by ℓ_2
- p. 520, l. 6: replace 3.4.7 by 3.5.10
- p. 524, l. 3: replace $\lim_{N \rightarrow \infty}$ by $\lim_{N \rightarrow \infty} N$
- p. 524, l. -14: replace 4.2.2 by 4.4.2
- p. 525, l. -12: replace $b, b - d + 1, b - c + 1$ by $b, b - d + 1, b - e + 1$
- p. 526, l. -7: replace $C(\ell; j')$ by $C(\ell; \mathbf{j}')$
- p. 527, l. 11: replace $= C(\ell; \mathbf{j})$ by $= C(\ell; \mathbf{j}')$
- p. 529, l. -6: replace \otimes_{ℓ_3} by $\otimes T_{\ell_3}$
- p. 532, l. -6: replace $C_{i+j,k,k+j+k}^{\ell_{12}\ell_3\ell}$ by $C_{i+j,k,i+j+k}^{\ell_{12}\ell_3\ell}$
- p. 535, l. -8: replace $\Delta(\ell_2, \ell, \ell_{12})$ by $\Delta(\ell_3, \ell, \ell_{12})$
- p. 536, l. 7: replace $(\ell_1 + \ell_2 + \ell_3 + 1)$ by $(\ell_1 + \ell_2 + \ell_3 + \ell + 1)!$
- p. 538, l. -7: replace $(-1)^{\ell_1 + \ell_2 + \ell_3 + \ell_{12} + \ell_{23}}$ by $(-1)^{\ell_1 + \ell_2 + \ell_3 + \ell_{12} + \ell_{23} + \ell}$
- p. 539, l. 6: replace Δ by δ
- p. 540, l. -6: replace $]^{-1}$ by $]^{-1/2}$
- p. 542, l. 14: replace $(\ell_1 + \ell_2 + \ell - \ell)!$ by $(\ell_1 + \ell_2 + \ell_3 - \ell)!$
- p. 545, l. 6: replace d by d_2
- p. 545, l. 13: replace 8.13.13 by 8.3.3
- p. 545, l. -10: replace $\Gamma(a + a - b - c)$ by $\Gamma(1 + a - b - c)$
- p. 549, l. 8: replace 8.3.3 by 8.3.4
- p. 549, l. -7; p. 550, l. 6: replace “Eberlane” by “Eberlein”
- p. 550, l. -12: replace $(N - n)$ by $(n - N)$
- p. 550, l. -7: replace 8.1.3 by 8.2.3
- p. 550, l. -5: replace $\sum_{N=0}^N$ by $\sum_{n=0}^N$
- p. 551, l. 4: replace p^{-N} by $p^{-N} x'!$

- p. 553, l. 14: replace $\beta\gamma$ by β, γ
p. 555, l. -9: replace $+b_n$ by $-(a_n + c_n + y)$
p. 555, l. -7, -6, -5, -4: replace these lines by

$$a_n = \frac{(n + \alpha + 1)(n + \alpha + \beta + 1)(n + \beta + \gamma + 1)(n + \gamma + 1)}{(2n + \alpha + \beta + 1)(2n + \alpha + \beta + 2)},$$

$$c_n = \frac{n(n + \alpha + \beta - \gamma)(n + \alpha - \delta)(n + \beta)}{(2n + \alpha + \beta)(2n + \alpha + \beta + 1)}.$$

- p. 556, l. 5: replace “respectively from a_n, b_n and c_n ” by “from coefficients in (20)”
p. 556, l. 10: replace $(\beta + \delta)$ by $(-\beta - \delta - 1)$
p. 557, l. -1: replace $\Gamma(b + c + d)$ by $\Gamma(b + c + n)$
p. 558, l. 6: replace $C_{jmk}^{\ell_1 \ell_2 \ell}$ by $C_{jkm}^{\ell_1 \ell_2 \ell}$
p. 573, l. 13: replace $+C((\tau, \varepsilon, \ell)$ by $+C((\tau, \varepsilon), \ell$
p. 574, l. -7: replace $(2\ell_2 + 1)\ell - j - k!$ by $(2\ell_2 + 1)(\ell - j - k)!$
p. 575, l. 7: replace (9) by (7)
p. 577, l. 8 and l. 12: replace 8.3.2 by 8.3.7
p. 579, l. 3: replace b_j by \mathbf{j}
p. 579, l. 13: replace 8.3.4 by 8.3.6
p. 583, l. 2: replace $\sin^{2\theta}$ by $\sin^2 \theta$
p. 585, l. -7: replace $\ell - 2 - m$ by $\ell_2 - m$
p. 587, l. -1: replace $\ell - 2$ by ℓ_2
p. 588, l. 9: replace ℓ_1 by \hat{T}_ℓ^-
p. 589, l. 3: replace 8.7.8 by 8.7.7
p. 589, l. 5: replace A_ω by $A_\omega f$
p. 592, l. 12: replace $K_{\omega\tau'}(\mathbf{x}, \mathbf{y}, \mathbf{z}')$ by $\overline{K_{\omega\tau'}(\mathbf{x}, \mathbf{y}, \mathbf{z}')}$
p. 592, l. -1: replace “827-283” by “827-838”
p. 593, l. 7: replace $(\frac{\varphi_1}{2})$ by $(\sin \frac{\varphi_1}{2})$

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- p. 4, l. 7: replace 2.1.1 by 9.1.1
p. 5, l. -10: replace $\langle \cdot, \cdot \rangle$ by $-B(\cdot, \cdot)$
p. 7, l. -13: replace x_i by x_k
p. 7, l. -11: replace $\sum_{k=1}^n$ by $\sum_{k=1}^{n-1}$
p. 7, l. -11 and l. -9: Put numbers of formulas: (6) and (7), respectively
p. 8, l. -8: replace 1.1.5 by 1.1.6
p. 8, l. -4: replace $B(X, Y) \equiv \text{Tr}(\text{ad}X\text{ad}Y)$ by $B(X, X) \equiv \text{Tr}(\text{ad}X\text{ad}X)$
p. 15, l. 7: replace “obtian” by “obtain”
p. 17, l. 17: replace “Every” by “Almost every”
p. 20, l. -10: replace δ_0 by Δ_0
p. 22, l. 14: replace “measures” by “measure”

- p. 23, l. 6: replace $H + -^{n-1}$ by H_+^{n-1}
- p. 23, l. -7: replace (17) by (16')
- p. 24, l. 11: replace Γ_1^e by Γ_1^e
- p. 25, l. 11: replace 9.1.9 by 9.1.7
- p. 28, l. -10: replace θ'_{n-1} by θ'_{n-2}
- p. 29, l. 18: replace "function" by "functions"
- p. 31, l. 2: replace "is a harmonic polynomial" by "is a restriction of a harmonic polynomial"
- p. 37, l. 6: replace "where" by "and"
- p. 39, l. 4: replace "restriction of" by "restriction $\hat{T}^{n,-\ell-n+2}$ of"
- p. 39, l. 5: replace " $\hat{T}^{n\ell}$ and $\check{T}^{n,-\ell-n+2}$ " by " $\check{T}^{n\ell}$ and $\hat{T}^{n,-\ell-n+2}$ "
- p. 40, l. -12: replace $y_p^2 + z_1^2 +$ by $y_p^2 = z_1^2 +$
- p. 41, l. 9: replace $SO_0(n-1, 1)$ by $SO_0(p, q)$
- p. 42, l. 2: replace = by = -
- p. 45, l. 9: replace \mathfrak{l} by \mathfrak{L}
- p. 45, l. 12: replace $\check{\mathfrak{H}}_k^{n\ell}$ by $\check{\mathfrak{H}}_K^{n\ell}$
- p. 45, formula (2): replace S by L
- p. 57, l. -2: replace \int_0^∞ by \int_1^∞
- p. 62, l. -5: replace $\int_{-\infty}^\infty$ by $\int_{-\infty}^\infty$
- p. 69, l. -10: replace (3) by (6)
- p. 70, l. -5: replace cos by cosh
- p. 71, l. 5: put number of formula: (12')
- p. 75, l. 4: replace $D_{\ell+\lambda}^{\alpha-1/2}$ by $D_{\ell+\lambda+1}^{\alpha-1/2}$
- p. 77, l. -2: replace $\Gamma(-\sigma - 2 - p - m + 1)$ by $\Gamma(-\sigma - 2p - m + 1)$
- p. 78, l. -8 and l. -3: replace $\Gamma(p - \frac{1}{2})m!$ by $\Gamma(p - \frac{1}{2})$
- p. 80, l. -7: replace \int_{-1}^1 by \int_1^∞ and $(1 - x^2)$ by $(x^2 - 1)$
- p. 80, l. -1: replace $(z^2 - 1)$ by $(z^2 - 1)^{1/2}$
- p. 82, l. 9 and l. 10: replace $D_{\nu-i\lambda+\alpha-1/2}^{i\lambda+\alpha}$ by $D_{\nu-i\lambda+\alpha-1/2}^{i\lambda+1/2}$
- p. 84: add after formula (2) "(We suppose here that f decomposes only by means of class 1 irreducible representations of $SO(n)$.)"
- p. 86, l. 2: replace $\ell(n-3)!$ by $\ell!(n-3)!$
- p. 96, l. 8: add at the end of the formula $\left. \right]^{1/2}$
- p. 99, l. -2: replace 9.4.15 by 9.4.5
- p. 101, l. 1 and l. 12-13: replace "(6) of Section 9.4.2" by "(3) of Section 9.3.1"
- p. 104, l. -6: replace "ae" by "are"
- p. 104, l. -3: replace ${}_eF_2$ by ${}_3F_2$
- p. 105, l. 1 and l. 2: replace "rime" by "prime" and "hae" by "have"
- p. 105, l. 5: replace m_r by $m - r$
- p. 110, l. 10 and l. 11: replace cosh by cos (3 times)
- p. 120, l. -7: replace $(t - 5 + n)!$ by $(t - 5 + n)$

- p. 121, l. 4: replace kk by k
- p. 122, l. -3: replace j_{kmj}^n by J_{kmj}^n
- p. 127, l. 4: replace “(2)” by “formula (2) of Section 9.2.7”
- p. 140, l. 7: replace “equality” by “equalities”
- p. 144, l. -4: replace 9.4.10 by 9.4.11
- p. 150, l. 7: replace “oeprators” by “operators”
- p. 152, l. -9: replace $J_p(x)\sqrt{2p}$ by $J_p(x\sqrt{2p})$
- p. 153, l. -7: replace $(T_\psi 1, \xi^n)$ by $(T_\varphi 1, \psi^n)$
- p. 154, l. 4: replace $\xi + \xi_2$ by $\xi_1 + \xi_2$
- p. 158, l. -5: replace (x) by (x^2)
- p. 162, l. -11: replace “oeprator” by “operator”
- p. 165, l. -2: replace “(5) and (6)” by “(5) or (6)”
- p. 168, l. 7: replace t^{n-3} by $t^{n-3}dt$
- p. 169, l. -10: replace 9.1.2 by 9.2.1
- p. 169, l. -6: replace $SO(x)$ by $SO(s)$
- p. 178, l. -4: replace (10) by (9)
- p. 182, l. -10: replace $\eta \in \mathbb{R}^n$ by $\mathbf{y} \in \mathbb{R}^n$
- p. 185, l. -8 and l. -2: replace “(7) of Section 10.1.6” by “(1) of Section 10.2.4”
- p. 186, l. 7: replace 10.1.6 by 9.3.4
- p. 190, l. 4 and l. 6: replace “(1) and (3) of Section 10.1.6” by “(11) of Section 10.2.1”
- p. 198, l. 5: replace n_2 by $n + 2$
- p. 198, l. 7: replace $M\delta$ by M
- p. 200, l. -5: replace $\sum -M'$ by $\sum_{M'}$
- p. 201, l. 6: replace “is one of” by “is of”
- p. 208, l. 4: replace $B(t)$ by $B(\mathbf{t})$
- p. 210, l. -9: replace 9.3.2 by 9.3.1
- p. 211, l. -1: put number of the formula: (7')
- p. 213, formula (6): replace $\Xi_N^{n-1,s}$ by $\Xi_{N'}^{n-1,s}$
- p. 214, l. -12: replace $i u \rho$ by $i \rho$
- p. 216, l. 12: replace $r + \frac{p-2}{2}$ by $r + \frac{p-3}{2}$ and $s + \frac{q-2}{2}$ by $s + \frac{q-3}{2}$
- p. 217, l. -1: replace φ_2 and φ_1 by φ_1 and φ_2 , respectively
- p. 219, l. 4: replace R by R^{-1}
- p. 223, l. 9: replace $-e^{-\pi i \alpha}$ by $e^{-\pi i \alpha}$
- p. 226, l. 3: replace “separated” by “separation”
- p. 226, l. 6: replace “separation” by “separated”
- p. 227, l. -11: replace 10.4.3 by 10.4.1
- p. 227, l. -4: replace “(4') of Section 10.4.3” by “(5) of Section 10.4.2”
- p. 230, l. 9 and l. 11: replace M by m (3 times)
- p. 242, l. -2: replace $\Gamma(\gamma + 2)$ by $\Gamma(\gamma + 1)$
- p. 245, l. 5: replace $\binom{s}{s} - k - r$ by $\binom{s}{s-k-r}$

- p. 247, l. -16: replace “numbers” by “number”
- p. 247, l. -5: replace cosh by cos
- p. 247, l. -2: replace cos by cosh
- p. 248, l. -6: replace $\equiv G$ by $\equiv G_{pq}^{mn}$
- p. 248, l. -4: replace $0 \leq n \leq q$ by $0 \leq n \leq p$
- p. 249, l. -9: replace $\Gamma(a_j + b_k - 1)$ by $\Gamma(1 + b_k - a_j)$
- p. 249, l. -4: replace b_m by b_q
- p. 252, l. 2: replace $\alpha_{p,\alpha}$ by α_p, α
- p. 257, l. -5: replace $\sigma \frac{n-5}{2}$ by $\sigma - \frac{n-5}{2}$
- p. 257, l. -1: replace $\sum_{m=m_1}^{\infty}$ by $\sum_{m=m_1}^{\infty}$
- p. 263, l. -8: replace $0 < \text{Re } \sigma$ by $0 > \text{Re } \sigma$
- p. 268, l. -9: replace (10) by (9)
- p. 278, l. 12: replace U_n by $U(n)$
- p. 280, formulas (6) and (7): replace \mathbf{z} by $\bar{\mathbf{z}}$ in 2-th and 3-th rows of the matrices
- p. 290, l. -9: replace (1) by (11)
- p. 302, l. 15: replace “corresond” by “correspond”
- p. 308, l. -6: replace $T^{n\ell'}$ by $T^{n\ell}$
- p. 314, l. -8: replace m_{r-1} by m_{r+1}
- p. 317, l. 3: replace $\left. \right]$ by $\left. \right]^{1/2}$
- p. 321, l. 11: replace “and” by “or”
- p. 324, l. 6: replace $t_{(m,0)0}^{n-m',\ell,\ell'-m'}$ by $t_{(m,0)0}^{n+m',\ell,\ell'-m'}$
- p. 324, l. 9: replace $(l + n - 2)$ by $(l + n - 2)!$
- p. 326, l. 5: replace $\varphi^{n=1,\sigma-1,k+1}$ by $\varphi^{n+1,\sigma-1,k+1}$
- p. 326, l. 6: replace $(\sigma - k = 2n - 2)$ by $(\sigma - k + 2n - 2)$
- p. 328, l. 11: replace ξ by Ξ
- p. 329, l. 3: replace $s!p!q!$ by $p!q!$
- p. 330, l. 6: replace I_{pq} by K_{pq}
- p. 330, l. 10: replace (7) by (6)
- p. 330, l. -5: replace s'_q by $s' + q$
- p. 331, l. -6: replace 10.1.5 by 10.4.1
- p. 332, l. 10: replace 11.3.1 by 11.3.2
- p. 333, l. 3 and l. -3: replace n_1 by $n - 1$
- p. 333, l. -3: replace $g - n - 1$ by g_{n-1}
- p. 333, l. -2: replace $g - n_1$ by g_{n-1}
- p. 335, l. 14: replace $\sin \theta_1 \sin \theta_1$ by $\sin \theta_1 \sin \theta_2$
- p. 336, l. 14: replace $g - n - 2$ by g_{n-2}
- p. 337, l. -3: replace $r^{\beta+m-m'} (\cosh 2t_1)$ by $r^{m-m'}$
- p. 337, l. -2: replace $\mathfrak{P}_{\mu-m}^{(\alpha+m+m',m-m')}$ by $\mathfrak{P}_{\mu-m}^{(\alpha+m+m',\beta+m-m')} (\cosh 2t_1)$
- p. 338, l. -4: replace r_w by r_2

- p. 340, l. -9: replace $a_{\ell\ell'}$ by $a_{\ell\ell'} =$
- p. 343, l. -2: replace $(\beta + \frac{1}{2})$ by $\Gamma(\beta + \frac{1}{2})$
- p. 345, l. 11: replace K by \mathcal{K}
- p. 347, l. 10: replace $P_{\ell}^{(\alpha-1, k-\ell)}$ by $P_{\ell}^{(\alpha-1, k-\ell)}$
- p. 348, l. 5: replace $(2r^2 - 1)^{m'-m+1}$ by $(2r^2 - 1)r^{m'-m+1}$
- p. 350, l. 5: replace $\cosh t)\alpha - \beta - 1$ by $\cosh t)^{\alpha-\beta-1}$
- p. 351, l. 4: replace $\beta;'$ by $\beta;$
- p. 353, l. 8: replace $t(\theta)$ by $t_{(mm')_0}^{m\ell'}(\theta)$
- p. 355, l. -3: replace q_k by $q + k$ and q_1 by $q + 1$
- p. 356, l. 8: replace $P_{r+q}^{(\alpha-1, -1)}$ by $P_{r+q}^{(\alpha-1, -q)}$
- p. 357, l. 12: replace $(-\nu_1 - n + 1)$ by $(-\nu_1 - n + 1)!$
- p. 365, l. -12: replace $(\frac{\partial}{\partial y} - \frac{\partial}{\partial x})$ by $(x\frac{\partial}{\partial y} - y\frac{\partial}{\partial x})$
- p. 366, l. 4: replace g_{n-1} by g_{n-2}
- p. 369, l. 12: replace 11.2.6 by 11.2.4
- p. 374, l. -9: replace 24 by $2r$
- p. 374, l. -4: replace $(r - j)!$ by $(r - j)'$
- p. 377, l. 5: replace $(p + m' + n - 3)!$ by $(p' + m + n - 3)!$
- p. 377, l. -3: replace \sin by \sinh
- p. 381, l. 2: replace “hypergeometric” by “hypergeometric”
- p. 386, l. -10: replace N by n
- p. 388, l. 10: replace $p; -j'$ by $p' - j'$
- p. 390, l. 6: replace $2(p' - j)!$ by $2(m' - j)!$
- p. 390, l. -8: replace $\cos \varphi$ by $\cos \psi$
- p. 396, l. 1: add to the end of the line “Points \mathbf{q} for which $[\mathbf{q}, \mathbf{q}] = 0$ form the cone C_H^{n-1} .”
- p. 400, l. 10: replace 11.7.4 by 11.7.3
- p. 413, l. 3: replace “algebra” by “algebra”
- p. 418, l. -9: replace n^{-1} by n^{-1}
- p. 427, l. -1: replace $\frac{1}{2}\alpha', \beta'$ by $\frac{1}{2}\alpha'\beta'$
- p. 430, l. 13: replace $m\mathbf{b}'$ by \mathbf{b}'
- p. 434, l. -8: replace $= ia\frac{d}{dx}f_g(x)$ by $-ia\frac{d}{dx}f_g(x)$
- p. 438, l. 7: replace (g_{ij}^{-1}) by $(g_{ij}^{(-1)})$
- p. 442, l. 11: replace D_1 by \tilde{D}_1
- p. 442, l. 16: replace T_k by T_h
- p. 442, l. -5: replace $R_{n, N+2}$ by $R_{n, N-2}$
- p. 443, l. 5: replace $\sum_{m=0}^{\infty} \otimes (T^{nm} \oplus D_{\ell(m)})$ by $\sum_{m=0}^{\infty} \oplus (T^{nm} \otimes D_{\ell(m)})$
- p. 447, l. 13: replace E by D
- p. 449, l. -3: replace $=$ by $-$
- p. 451, l. -4: replace $N + n$ by N_n
- p. 451, l. -3: replace n_1 by $n + 1$

- p. 462, l. 3: replace $\pi(pn + \ell^2)$ by $\pi(pn + \ell)^2$
- p. 463, l. 8: replace $(p + 1)$ by $(5p + 1)$
- p. 463, l. -7: replace “funntions” by “functions”
- p. 473, l. -3: replace θ' by ζ'
- p. 476, l. 5: replace $\hat{h}_{1\ell'j}$ by $\hat{h}_{\ell\ell'j}$
- p. 477, l. 1: replace (10) by (11)
- p. 477, l. 7: replace “iwth” by “with”
- p. 480, l. -2: replace $(\cos \frac{\varphi}{2})^{2\theta-1}$ by $(\cos \frac{\varphi}{2})^{2\beta-1}$
- p. 483, l. -5: replace $g_{n-2}(\theta_1)$ by $g_{n-1}(\theta_1)$
- p. 491, l. 9: replace h_2 by y_2
- p. 494, l. -7: replace $x - hg_1p$ by $x = hg_1p$
- p. 495, l. -6: replace $(N/|H|/|G|)$ by $(N|H|/|G|)$
- p. 499, l. 2: replace $\Gamma(u + n - \ell + 1)$ by $\Gamma(u + \ell - n + 1)$
- p. 499, l. 16: replace “fo rm” by “form”
- p. 505, l. -8: replace x_0 by \mathbf{x}_0
- p. 506, l. 2: replace “take” by “takes”
- p. 506, l. 12: replace i_1 by u_1
- p. 506, l. -7: replace E_{r-m} by $\times E_{r-m}$
- p. 508, l. 14: replace gj by $6j$
- p. 509, l. -4: replace w_{-i+} by w_{-i-}
- p. 511, l. 11: replace (-1) by $(-1)^m q$
- p. 512, l. -10: replace $\frac{\Gamma(a+n+1)}{\Gamma(a+1)}$ by $\frac{\Gamma(a+n)}{\Gamma(a)\Gamma(n+1)}$
- p. 512, l. -6: replace $q^{n(N-n)}$ by $q^{-nN + \frac{1}{2}n(n-1)}$
- p. 512, l. -5: replace $(a; q)_{-n} =$ by $(a; q)_{-n} \equiv \frac{(a; q)_{\infty}}{(q^{-n}a; q)_{\infty}} =$
- p. 512, l. -4: replace $(a; q)_n(k+1)$ by $(a; q)_{n(k+1)}$
- p. 513, formula² (14): replace z^j by $((-1)^j q^{j(j-1)/2})^{n-m+1} z^j$
- p. 514, l. 1: replace “This series” by “This series for $|q| < 1$ ”
- p. 514, l. 11: replace $q^{-1}z$ by $q^{-1}; z$
- p. 514, l. -10: replace $=$ by $= a^k$
- p. 515, l. 7: replace $q > 0$ by $1 > q > 0$
- p. 516, l. 8; p. 525, l. 5: replace “Eberlane” by “Eberlein”
- p. 517, l. -1: replace ${}_2\varphi_2(\dots)$ by $\sum_n \frac{(q^{-j}; q)_n (q^{-x}; q)_n q^n}{(q^{-a}; q)_n (q^{-b}; q)_n (q; q)_n}$
- p. 525, l. 4: remove \times
- p. 529, l. 13: replace 9 by (
- p. 532, l. 8: replace $r - c$ by $r - j$
- p. 535, l. -11: remove m in the end of the line
- p. 537, l. 14: replace “finite” by “finite support,”

²The basic hypergeometric functions were defined by formula (14) before writing this chapter. Now another definition is used which includes the multiplier given here.

- p. 538, l. 1: replace q^{b-1}, q^{a-1} by q^{b+1}, q^{a+1}
p. 541, l. 14: remove “In particular”
p. 553, l. 12: replace $q^{-h/2}$ by $)q^{-h/2}$
p. 556, l. -5: replace $q^{h_1-h_2}$ by q^{h_1-k}
p. 560, l. 6: replace $x + y\sqrt{\tau}$ by $z = x + y\sqrt{\tau}$
p. 576, l. -2: replace “quadratic” by “one quadratic”
p. 607, l. 4: replace “ q -Eberlane” by “ q -Eberlein”

Volume 3

- p. 1, formula (1): add at the end “ $a \neq q^{-n}, q^{-n-1}, \dots$ ”
p. 1, l. -5: replace $(q; q)_r$ by $(q; q)_N$ and $q^{r(r-2N-1)/4}$ by $q^{r(r-2N-1)/2}$
p. 2 and p. 3, formulas (16) and (17): replace $\frac{[r+\alpha]!}{[r+\beta]!}$ by $\frac{[r+\alpha]}{[r+\beta]}$
p. 7, l. -6: replace $q^{(2k+1)(n+1)+j}$ by $q^{(2k+1)(n+1)-j}$
p. 9, l. -3: replace $b[[a]](1 - bqx)_q^{a-1}$ by $b[[-a]](1 - bx)_q^{a-1}$
p. 12, l. 2: replace $x - a$ by $qx - a$ (two times)
p. 12, l. 3: replace “[m]!” by “[m]! = [[1]][[2]] \cdots [[m]], [[k]]”
p. 12, l. -8: replace q^j by q^n
p. 14, formula (1): this integral does not converges. For this reason, q -gamma function has to be defined by formulas (4) and (5) on this page.
p. 17, l. -2: replace ${}_2\varphi_1(a, b; c; q, x)$, $(1 - a)$, ${}_2\varphi_1(aq, b; c; q, x)$ by ${}_2\varphi_1(q^a, b; c; q, x)$, $\frac{1-q^a}{1-q}$, ${}_2\varphi_1(q^{a+1}, b; c; q, x)$, respectively
p. 17, l. -1: replace ${}_2\varphi_1(a, b; c; q, x)$, $(2 - c)x^c$, ${}_2\varphi_1(a, b; cq^{-1}; q, x)$ by ${}_2\varphi_1(a, b; q^c; q, x)$, $\frac{1-q^{c-1}}{1-q}x^{c-2}$, ${}_2\varphi_1(a, b; q^{c-1}; q, x)$, respectively
p. 18, l. 2-4: replace these lines by

$$\begin{aligned} D_q^n \{x^{c+n-1} {}_2\Phi_1(c/a, c/b; c+n; q, x)\} &= \frac{(q^c; q)_n}{(1-q)^n} x^{c-1} {}_2\Phi_1(c/a, c/b; c; q, x) \\ &= \frac{(q^c; q)_n}{(1-q)^n} x^{c-1} \frac{{}_2\Phi_1(a, b; c; q, xq^{c-a-b})}{{}_1\Phi_0(ab/c; q, xq^{c-a-b})}. \end{aligned}$$

- p. 18, formula (5): replace this formula by

$$D_q^n \left\{ \frac{x^{c+n-1} {}_2\varphi_1(q^{a+n}, q^{b+n}; q^{c+n}; q, xq^{c-a-b-n})}{{}_1\varphi_0(q^{a+b-c+n}; q, q^{c-a-b-n})} \right\} = \frac{(q^c; q)_n}{(1-q)^n} x^{c-1} \frac{{}_2\varphi_1(q^a, q^b; q^c; q, xq^{c-a-b})}{{}_1\varphi_0(q^{a+b-c}; q, xq^{c-a-b})}. \quad (5)$$

- p. 18, formula (6): replace this formula by

$${}_1\varphi_0(q^{b-c-n}; q, xq^{c-b+n}) D_q^n \frac{x^{c+n-1}}{{}_1\varphi_0(q^{b-c}; q, xq^{c-b})} = \frac{(q^c; q)_n}{(1-q)^n} x^{c-1} {}_2\varphi_1(q^{-n}, q^b; q^c; q, xq^{c+n-b}). \quad (6)$$

- p. 19, l. -8, -3, -2: replace ${}_2\varphi_1$ by ${}_2\Phi_1$
p. 25, l. 6: replace A by \mathcal{A}
p. 30, l. -6: replace “homomorphisms” by “(anti)homomorphisms”

- p. 32, l. –12: replace “not a root of unity” by “positive”
- p. 35, l. 13: replace “(1) and (2)” by “(3)”
- p. 41, l. 4: replace $m + 1$ by $m - 1$
- p. 52, l. –8 and l. –3: replace $U(\mathfrak{sl}_2)$ by $U_q(\mathfrak{sl}_2)$
- p. 53, l. –8: replace “Rc” by “RC”
- p. 53, l. –4: replace $U(\mathfrak{sl}_2)$ by $U_q(\mathfrak{sl}_2)$
- p. 66, l. –9: replace “where” by “where $b = b_1 q^{x-M}$, $\sigma = m-n \equiv \text{const}$, $\tau = x-y \equiv \text{const}$,”
- p. 67, l. 5 and l. 12: replace ${}_3\Phi_2$ by ${}_2\Phi_1$
- p. 69, l. 9: replace “ q -Aberlane” by “ q -Eberlein”
- p. 69, l. –5: replace $(1 - abq^{2n+2})$ by $(1 - abq^{2n+1})$
- p. 69, l. –1: replace $(1 - q^{x+1})$ by $(1 - abq^{x+1})$
- p. 71, l. 12: replace $(\gamma\delta/\beta; q)_x$ by $(\gamma/\beta; q)_x$
- p. 78, l. 8: replace $\frac{c}{c}$ by $\frac{c}{a}$
- p. 79, l. 7: replace a by aq (4 times)
- p. 81, l. –9: now q -Askey-Wilson polynomials are called as Askey-Wilson polynomials
- p. 83, l. 4: replace a^{n+1} by q^{n+1}
- p. 83, l. –11: replace a^2 by a^{-2}
- p. 83, l. –10: replace $(1 - aq^{2k})$ by $(1 - a^2q^{2k})$ and $(1 - a)$ by $(1 - a^2)$
- p. 85, l. –3: replace $\frac{t^n a^{-n} (ac; q)_n (ad; q)_n}{(cd; q)_n (q; q)_n}$ by $\frac{t^n}{(ab; q)_n (cd; q)_n (q; q)_n}$
- p. 86, l. 4: replace $\frac{(cd; q)_n (q; q)_n a^n}{(ac; q)_n (ad; q)_n 2\pi i}$ by $\frac{(ab; q)_n (cd; q)_n (q; q)_n}{2\pi i}$
- p. 88, l. 15: replace $1x^2$ by $2x^2$
- p. 103, l. 3: replace t_{ij}^ℓ by $t_{ij}^{(\ell)}$
- p. 103, l. 4: replace 14.8.3 by 14.8.2
- p. 104, l. –7: replace 14.4.1 by 14.4.4
- p. 105, l. 14: replace 14.2.8 by 14.8.2
- p. 107, l. 2: replace K_L by L_K
- p. 109, l. –8: replace (5) by (7)
- p. 112, l. –6: replace $2(\ell - j)$ by $2(\ell - n)$
- p. 112, l. –5: replace $2(\ell + i)$ by $2(\ell + m)$
- p. 141, l. 6: replace t'_s by t'_{q-p+s}
- p. 141, l. 7: remove in numbers s $p-s$ $p-s$ s , numerating rows and columns of the matrix, the last number s (two times)
- p. 141, l. –16: replace t'_s by $t'_{s'}$
- p. 149, l. 21: replace π by $\pi/2$
- p. 154, l. 9: replace λ_j $2\lambda_j$ by $\lambda_j, 2\lambda_j$
- p. 159, l. 6; p. 186, l. –14; p. 188, l. 5; p. 207, l. 19: replace “In this reason” by “For this reason”
- p. 195, l. 13: replace g^{ij} by g^{ji}
- p. 200, l. 8: replace “prove” by “proved”

- p. 204, l. 4: replace “It” by “If”
- p. 204, l. –6: replace $(T_Q(g)\mathbf{f})$ by $(T_Q(g)\mathbf{f})$
- p. 205, l. –19: replace “right” by “ring”
- p. 207, l. 11: replace \mathcal{I}^+ by \mathcal{I}_*^+
- p. 208, l. –1: replace α_m by $\alpha_{\mathbf{m}}$
- p. 211, l. –6: replace $\mathcal{P}(m)$ by $\mathcal{P}(X)$
- p. 215, l. 1: replace f by h
- p. 219, l. 3: replace $f_1(n_+)$ by $f_1(\dot{n}_+n_+)$
- p. 221, l. 15: replace W^*W by WW^*
- p. 222, l. –1: replace $namg$ by nam
- p. 227, l. –14: replace “functions” by “function”
- p. 231, l. –3: replace $\omega_1 \in SO(q)$ by $\omega_2 \in SO(q)$
- p. 234, l. –3: replace $\text{Tr } T^{\gamma\gamma}(h)$ by $\overline{\text{Tr } T^{\gamma\gamma}(h)}$
- p. 237, l. –5: replace $\mathbf{t}^{\nu,\alpha\beta,\lambda\mu}(g)(gg_0)$ by $\mathbf{t}^{\nu,\alpha\beta,\lambda\mu}(gg_0)$
- p. 240, l. –8: replace $F(\alpha_k, \beta_k, \gamma_k; x_k)$ by $F(\alpha_k, \beta_k; \gamma_k; x_k)$
- p. 243, l. –7: replace $\leq j < k \leq n$ by $1 \leq j < k \leq n$
- p. 245, l. –4: replace $(\ell_1, \dots, \ell_{k-1})$ by $(\ell_1, \dots, \ell_{k-1})$
- p. 255, l. 18: replace $SZ^{-1/2}$ by $SZ^{1/2}$
- p. 257, l. –11 and l. –9: replace $A(m, \mathbb{R})$ by $D(m, \mathbb{R})$
- p. 273, l. 2: replace “subgroup” by “group”
- p. 277, l. 8: replace “are integers” by “are non-negative integers”
- p. 283, formula (12): replace $(\frac{1}{2}n(n+1))!$ by $(\frac{1}{2}n(n+1) - 1)!$
- p. 283, formula (13): replace $(\frac{1}{2}n(n-1))!$ by $(\frac{1}{2}n(n-1) - 1)!$
- p. 292, l. –13: replace $\xi(T_1)$ by $\xi_2(T_1)$
- p. 296, l. –7 and l. –6: replace $|\mathbf{e}_\Lambda, \mathbf{f}_i|$ by $|(\mathbf{e}_\Lambda, \mathbf{f}_i)|$
- p. 297, l. 5: replace $\mu \in \mathbb{Z}_+$ by $\mu \in \mathbb{Z}$
- p. 297, l. 9: replace “orthonormal” by “orthogonal”
- p. 302, l. 15; p. 306, l. –2: replace “In” by “For”
- p. 303, l. –2: replace $i \leq j \leq p$ by $i < j \leq p$
- p. 308, l. 10 and l. 11: replace c_k by $c_{\mathbf{k}}$
- p. 315, l. –13: replace γ_1 by γ
- p. 327, l. 6: replace s by \mathbf{s}
- p. 329, l. –9: replace λ by Λ
- p. 331, l. –7; p. 332, l. 4: replace “In” by “For”
- p. 335, l. –7: replace (1) by (2)
- p. 343, l. 12: replace \mathfrak{M}_{km} by $\mathfrak{M}_{km}(\mathbb{R})$
- p. 344, l. –9: replace +etr by etr
- p. 344, l. –1; p. 345, p. 1, 3, 13, 15, 17: replace $\mathfrak{M}_{\ell, m-\ell}$ by $\mathfrak{M}_{m-\ell, \ell}$
- p. 352, l. 12, 15: replace k by \mathbf{k}
- p. 359, l. 13: replace $P_\mu^{(\gamma, \delta)}$ by $P_\mu^{(\gamma, \delta)}(\Lambda)$

- p. 409, l. 5: replace F by \mathbf{F} (two times)
- p. 416, l. 21: replace “In” by “For”
- p. 417, l. 12: replace r_{n-2} by r_s , $s = \lfloor \frac{n-2}{2} \rfloor$,
- p. 418, l. 14: replace 18.1.1 by 18.1.2
- p. 448, l. –10: replace $h \neq \mathbb{R}$ by $h \in \mathbb{R}$
- p. 450, l. 8: replace $\operatorname{Re} z = \operatorname{Re} z' = \pm 1/2$ by $\operatorname{Re} z = \pm 1/2, \operatorname{Re} z' = \pm 1/2$
- p. 450, l. 8: replace $z = z \pm 1$ by $z' = z \pm 1$
- p. 451, l. –8; p. 453, l. 10: replace “simple” by “prime”
- p. 457, l. –3: replace $q = e^{2\pi iz}$ by $q = e^{2\pi i\tau}$
- p. 460, l. –7: replace $1 - f(-i\tau)$ by $1 + f(-i\tau)$
- p. 464, l. 11; p. 466, l. –7: replace “In this reason” by “For this reason”
- p. 468, l. 2 and 5 of the note: replace “simple” by “prime”
- p. 469, l. –7: replace $z + 1$ by $z + \tau$
- p. 472, l. 6: replace $e^{2\pi ir(n-1)}$ by $e^{2\pi ir(2n-1)}$
- p. 472, l. –8: replace $\prod_{m=1}^{\infty}$ by $\prod_{m=0}^{\infty}$
- p. 474, l. 2: replace $U(0, b, 0)$ by $U(0, b, 1)$
- p. 474, l. 3: replace $U(a, 0, 0)$ by $U(a, 0, 1)$
- p. 480, l. –7, –12, –13: replace $Sp(n, \mathbb{Z})$ by $Sp(r, \mathbb{Z})$
- p. 496, l. 11: replace “In this reason” by “For this reason”
- p. 504, l. 8: replace $\hat{\mathfrak{h}}$ by $\tilde{\mathfrak{h}}$
- p. 506, l. 7: replace $L(\mathfrak{g})$ by $\tilde{L}(\mathfrak{g})$
- p. 507, Fig. 19.1: replace γ by δ (6 times)
- p. 515, l. 10: replace “algebras” by “algebra”
- p. 517, Fig. 19.2: replace γ by δ (6 times)
- p. 527, l. 9: replace “In” by “For”
- p. 527, l. –10: replace \mathfrak{H}_Λ by \mathfrak{H}
- p. 527, l. –1: replace \mathfrak{H}_Λ by \mathfrak{H}
- p. 528, l. 2 and l. 3: replace $-$ by $+$
- p. 528, l. 9 and l. –10: replace $\Lambda - \lambda$ by $\Lambda + \lambda$
- p. 528, l. –10, –9, –8: replace F_Λ by F_λ
- p. 530, l. 2: replace \mathfrak{H}_λ by \mathfrak{H}_Λ
- p. 545, l. 13; p. 554, l. 11: replace “In this reason” by “For this reason”
- p. 560, l. –12: replace “is” by “are”
- p. 589, l. 3: replace 19.8.4 by 19.8.5
- p. 591, l. –1; p. 592, l. 2: replace \hat{h} by $\hat{\mathfrak{h}}$
- p. 602, l. 6: put number of formula: (8)
- p. 602, l. 7: put number of formula: (9)