

# Index

- $\alpha_0, \alpha_\ell, \alpha_{\mathbf{m}}, 69\text{--}71$   
 $\Delta, \Delta_+, \Delta_-, 70$   
 $\Delta^{re}, \Delta_+^{re}, \Delta_-^{re}, \Delta^{im}, \Delta_+^{im}, \Delta_-^{im}, 70$   
 $\bar{\Delta}_+, 72$   
 $\Delta(\mathbf{m}), \Delta(w), 74, 75$   
 $[\Delta(\mathbf{m})], 77, 147, 163, 170, 174$   
 $\partial, \partial_\ell, \partial_{max}, 51$   
 $\partial^\lambda, 4$   
 $(\gamma)_k, (\mu)_\nu, \text{xiii}, 4$   
 $[\lambda]_{(k)}, 8$   
 $|\{\lambda_{\mathbf{m}}\}|, 36, 72, 123$   
 $\Lambda_0, \Lambda_{j,\nu}, \Lambda^0, \Lambda_{j,\nu}^0, \Lambda(\lambda), 72$   
 $\Pi_0, 79$   
 $\Pi, \Pi', \Pi(\mathbf{m}), 69, 77$   
 $\varpi, 103$   
 $\vartheta, 4$   
 Ad, Adei, 2  
 AdV, AdV<sup>0</sup>, 22  
 $B, 70$   
 $B_r(c), 18$   
 $c(\lambda_{j,\nu} \rightsquigarrow \lambda_{j',\nu'}), 119$   
 $c_{\mathbf{m}}(\epsilon; \lambda), 114$   
 $\tilde{D}_4, \tilde{E}_6, \tilde{E}_7, \tilde{E}_8, 70, 140$   
 $D_4^{(m)}, E_6^{(m)}, E_7^{(m)}, E_8^{(m)}, 78, 96$   
 $d_\ell(\mathbf{m}), 50$   
 $d_{max}, \ell_{max}, 51$   
 $EO_n, 60, 156$   
 $f_{\mathbf{m}}, 65$   
 ${}_nF_{n-1}, \text{xiii}$   
 gcd, 35  
 $GL(n, R), 11$   
 $h(\alpha), 74$   
 $H_n, 59, 150$   
 $\mathfrak{h}_p, \mathfrak{h}_p^\vee, \tilde{\mathfrak{h}}_p, 72, 73$   
 $I, I', 69$   
 $I_c^\mu, \tilde{I}_c^\mu, 5$   
 idx, 36  
 $\text{idx}_{\mathbf{m}}, 104$   
 $I_p, 72$   
 $L, 2$   
 $L(\mathbf{m}; \lambda), 37$   
 $L(w), 74$   
 $mc_\mu, 5$   
 $\mathbf{m}(k), \lambda(k), \mu(k), \ell(k), 53$   
 $M(n, \mathbb{C}), M(m_1, m_2, \mathbb{C}), 11, 37$   
 $N_\nu(\mathbf{m}), 55, 57, 59, 66$   
 $\mathcal{O}, \tilde{\mathcal{O}}, \mathcal{O}_c, \mathcal{O}_c(\mu, m), 17$   
 ord, 2, 35  
 $P_{p+1,n}, P_n, 99, 147, 182$   
 $\mathcal{P}, \mathcal{P}_{p+1}, \mathcal{P}^{(n)}, \mathcal{P}_{p+1}^{(n)}, 35$   
 Pidx, 36  
 $P_{\mathbf{m}}, P_{\mathbf{m}}(\lambda), 63$   
 $P^\vee, P^*, 41$   
 $Q_+, 69$   
 $R, 2$   
 RAd, RAdL, 3  
 RAdV, 23  
 Ridx, 64  
 $R_{\mathbf{m}}(\epsilon, \lambda), 109$   
 $s, \mathbf{sm}, 36$   
 $s_\alpha, s_i, 69$   
 $S_\infty, S'_\infty, 36$   
 supp, 70  
 $T_\phi^*, 2$   
 Top, 57  
 $W_\infty, W'_\infty, \tilde{W}_\infty, 69$   
 $w_{\mathbf{m}}, 74$   
 $W[x; \xi], W(x; \xi), 1$   
 $X_6, 60$   
 $Z(A), Z(\mathbf{M}), 38, 49, 90, 92$   
 $\mathbb{Z}_{\geq 0}, \mathbb{Z}_{> 0}, 2$   
 accessory parameter, 40  
 addition, 5  
     confluence, 22  
     around the origin, 23  
 affine, 70  
 Airy equation, 8, 194  
 apparent singularity, 20, 21, 35  
 Bäcklund transformation, 143  
 characteristic exponent, 17  
     (compatible) shift, 109  
     distinct, 35  
     distinguished, 38  
     generalized, 31  
 confluence, 21  
     addition, 22  
 connection coefficient, 119  
     generalized, 133, 159, 166  
 contiguity relation, 29, 109, 111, 112  
 convolution, 49  
 coordinate transformation, 2  
     linear fractional, 51  
 Coxeter system, 197