SYMBOL INDEX

$\bot$, 56, 112
$\top$, 112
$\Box$, 118
$(\wedge \vdash)$, 109
$(\vee \vdash)$, 109
$(\vdash \wedge)$, 109
$(\vdash \vee)$, 109
$\vdash$, 76
$\vdash_{\mathcal{S}}$, 25
$\vdash_{\mathfrak{G}}$, 77
$\dashv\vdash_{\mathcal{S}}$, 26
$\mid\!\sim_{\mathfrak{G}}$, 76
$\prec\!\mid\!\sim_{\mathfrak{G}}$, 77
$\models_{\mathsf{K}}$, 60, 83
$\models_{\mathsf{L}}$, 31
$\models_{\mathbb{L}}$, 31
$\rightleftharpoons\!\models_{\mathsf{K}}$, 83

$\mathbf{2}$, 107

$\boldsymbol{\delta}$, 76
η, 15
π, 23
π_θ, 21
$\boldsymbol{\sigma}$, 76
φ, 15
$\varphi(p, q, r, \dots)$, 16
$\varphi(\vec{q})$, 16
$\varphi^{\boldsymbol{A}}(\vec{a})$, 16
$\varphi \approx \psi$, 16
ξ, 15
ψ, 15
ω, 76
ω°, 76
Γ, 16
$\Gamma^{\boldsymbol{A}}(\vec{a})$, 16
$\Gamma \vdash \varphi$, 76
$\Gamma \vdash_{\mathcal{S}} \varphi$, 25
$\Gamma \vdash_{\mathcal{S}} \Delta$, 26
Δ, 16
$\boldsymbol{\Delta}$, 76
$\boldsymbol{\Lambda}$, 46
$\boldsymbol{\Lambda}_{\mathrm{C}}$, 46
$\boldsymbol{\Lambda}_{\mathbb{L}}$, 46
$\boldsymbol{\Lambda}(\mathbb{L})$, 46
$\boldsymbol{\Sigma}$, 76
$\boldsymbol{\Sigma}_{\mathrm{C}}$, 79
$\boldsymbol{\Sigma} \mid\!\sim_{\mathfrak{G}} \boldsymbol{\Delta}$, 77
$\boldsymbol{\Omega}_{\boldsymbol{A}}$, 16
$\boldsymbol{\Omega}_{\boldsymbol{A}}(F)$, 16
$\widetilde{\boldsymbol{\Omega}}$, 18
$\widetilde{\boldsymbol{\Omega}}_{\boldsymbol{A}}$, 18
$\widetilde{\boldsymbol{\Omega}}_{\boldsymbol{A}}(\mathcal{C})$, 19
$\widetilde{\boldsymbol{\Omega}}_{\boldsymbol{A}}(\mathrm{C})$, 19

$\vec{a}$, 16
$a^{\boldsymbol{*}}$, 23

A, 15
A^*, 23
$\boldsymbol{A}$, 15
$\boldsymbol{A}_{\mathbb{L}}$, 17
$\boldsymbol{A}^*$, 23
$\boldsymbol{A}^-$, 119
$\boldsymbol{A}^+$, 119
$\boldsymbol{A}/\theta$, 16
$\mathsf{Alg}\mathfrak{G}$, 80
$\mathsf{Alg}\mathcal{S}$, 36
$\mathsf{Alg}^*\mathcal{S}$, 28

BCI, 105
BCK, 105

$\mathcal{C}$, 17
$\mathcal{C}_{\mathbb{L}}$, 17
$\mathcal{C}^*$, 23
$\mathcal{C}^+$, 119
$\mathcal{C}^T$, 18
$\mathcal{C}/\theta$, 21
C (closure operator), 17
C (Hilbert-style rule), 128
C_θ, 40
$\mathrm{C}_{\boldsymbol{\Sigma}}$, 79
$\mathrm{C}_{\mathrm{fin}}$, 80
$\mathrm{C}_{\mathbb{L}}$, 17
C_n, 105
C^*, 23
C^+, 119
C^T, 18
C/θ, 21
$\mathrm{C}(a)$, 17
$\mathrm{C}(X, a)$, 17
$\mathrm{C} \leqslant \mathrm{C}'$, 18
$\mathrm{Cn}_{\mathcal{S}}$, 26
$\mathrm{Con}\,\boldsymbol{A}$, 15
$\mathrm{Con}_{\mathsf{K}}\boldsymbol{A}$, 15
$\mathrm{Con}\mathbb{L}$, 18
$\mathrm{Con}\,\mathcal{M}$, 16
CPC, 116
$\mathrm{CPC}_{\wedge\vee}$, 39, 70, 78, 107
$\mathrm{CPC}_{\rightarrow}$, 115

D, 107
DDT, 51
DM, 111
DT (Gentzen-style rule), 96, 98
DT (property), 51
DT0, 126
DT1, 126
DT1′, 126
DTn, 117

E, 105
$\mathrm{E}_{\rightarrow}$, 105
$\mathrm{Eq}(\boldsymbol{Fm})$, 16
(Eq1), 84
(Eq2), 84
(Eq3), 84
(Eq4), 84

F/θ, 16
$\mathrm{Fi}^{\boldsymbol{A}}_{\mathcal{S}}$, 27
$\mathcal{F}i_{\mathcal{S}}\boldsymbol{A}$, 27
$\mathcal{F}i^{\bigstar}_{\mathcal{S}}\boldsymbol{A}$, 63
Fm, 15
$\boldsymbol{Fm}$, 15
$\boldsymbol{Fm}_\kappa$, 24
$\mathsf{FMod}\mathcal{S}$, 33
$\mathsf{FMod}^*\mathcal{S}$, 33
$\mathcal{FM}od_{\mathcal{S}}\boldsymbol{A}$, 33

$\mathfrak{G}$, 76
$\mathfrak{G}_0$, 128
$\mathfrak{G}_1$, 126
$\mathfrak{G}_D$, 109
$\mathfrak{G}_L$, 110
$\mathfrak{G}_n$, 117, 126

$\mathfrak{G}_P$, 113
$\mathfrak{G}_{\mathcal{S}}$, 89
$\mathfrak{G}'_{\mathcal{S}}$, 98
$\mathfrak{G}^1$, 128
$\mathcal{G}_1$, 126
$\mathcal{G}_3$, 109
$\mathcal{G}_L$, 110
$\mathcal{G}^1$, 128
GL, 120

$\mathcal{H}_1$, 127
$\mathcal{H}^1$, 129
$\widetilde{\mathbf{H}}_{\boldsymbol{A}}$, 40
$\mathrm{Hom}(\boldsymbol{A}, \boldsymbol{B})$, 15

Id, 17
IPC, 116
IPC$_{\rightarrow}$, 115, 116
IPC*, 113
IPC$^+$, 115

K (implicative axiom), 126
K (modal logic), 118
K_3, 112
K4, 119, 120
K4B, 120
KT, 118
KT4, 119
K, 15
$\mathbf{K}_{\mathcal{S}}$, 29
K3, 113

LJ, 39, 62
L, 23
L*, 23
Lat, 110
$\mathbb{L}$, 17
$\mathbb{L}_{\mathrm{fin}}$, 80
$\mathbb{L}^*$, 23
$\mathbb{L}^-$, 119
$\mathbb{L}^+$, 119
$\mathbb{L}^{\mathrm{S}}$, 119
$\mathbb{L}^T$, 18
$\mathbb{L}/\theta$, 21
$\mathbb{L} \cong \mathbb{L}'$, 21
$\mathbb{L} \leqslant \mathbb{L}'$, 18

$\boldsymbol{M}_4$, 111
$\mathcal{M}$, 16
$\mathcal{M}^*$, 17
$\mathcal{M}/\theta$, 16
M, 17
M*, 17
Matr$\mathcal{S}$, 27
Matr*$\mathcal{S}$, 27
Mod$\mathcal{S}$, 32
MP (Gentzen-style rule), 96, 117
MP (Hilbert-style rule), 127
MP (property), 51
MP1, 128
MP2, 127

p, 15
P, 17
P°_{ω}, 83
P^1, 123
P^1-algebras, 124
PC, 50
PCDL, 113
PDI, 54
PIRA, 55
PR, 128
PRA, 55

q, 15
$\vec{q}$, 16
QH, 127
QH^1, 128

R, 122

$\mathrm{R}_{\rightarrow}$, 105
R-C, 128
R-MP1, 128
R-MP2, 127

$\mathbf{s}$, 84
$\mathbf{sq}$, 85
$\mathcal{S}$, 25
$\mathcal{S}_{\emptyset}$, 62
$\mathcal{S}_{\mathrm{N}}$, 118
$\mathcal{S}^{*}$, 29
S1, 105
S2, 105
S3, 105
S4, 118
S5, 105, 118
$\mathrm{S5}_{\rightarrow}$, 105
$\mathrm{Seq}(\boldsymbol{Fm})$, 76
$\mathrm{Seq}^{\circ}(\boldsymbol{Fm})$, 76
$\mathrm{Seq}(\mathfrak{G})$, 77

$\mathbf{t}$, 84
$\mathbf{t}_{\wedge}$, 87
$\mathbf{t}_{\rightarrow}$, 97
$\mathcal{T}h\mathcal{S}$, 26
TML, 125
TML_{N}, 125

Var, 15

WPDI, 110
WR, 62, 122