Laws of Form Reference

Axioms

$\overline{\overline{p}\,p} =$ (Position J1)

$\overline{\overline{pr}\,\overline{qr}} = \overline{\overline{p}\,\overline{q}}r$ (Transposition J2)

Consequences

$\overline{\overline{a}} = a$ (Reflexion C1)

$\overline{ab}\,b = \overline{a}\,b$ (Generation C2)

$\overline{}\,a = \overline{}$ (Integration C3)

$\overline{a\,\overline{b}}\,a = a$ (Occultation C4)

$aa = a$ (Iteration C5)

$\overline{a\,\overline{b}}\,\overline{a\,b} = a$ (Extension C6)

$\overline{a\,b\,c} = \overline{ac}\,\overline{b\,c}$ (Echelon C7)

$\overline{a\,\overline{br}\,\overline{cr}} = \overline{a\,\overline{b}\,\overline{c}}\,\overline{a\,\overline{r}}$ (Modified transposition C8)

$\overline{a\,\overline{r}}\,\overline{b\,\overline{r}}\,\overline{x\,r}\,\overline{y\,r}} = \overline{r\,ab}\,\overline{rxy}$ (Crosstransposition C9)

Corollaries

$\overline{p}\,p = \overline{}$ (J1.1)

$\overline{p\,pq} =$ (J1.2)

$\overline{pr}\,\overline{qr} = \overline{\overline{p}\,\overline{q}}r}$ (J2.1)

$\overline{}\,a = a$ (B2)

$\overline{\overline{}\,a} =$ (C3.1)

$\overline{ab}\,\overline{a} = \overline{a}$ (C4.1)

$\overline{a\,b}\,\overline{ab} = \overline{b}$ (C6.1)

$\overline{\overline{a\,b}\,\overline{ab}} = b$ (Robbins C6.2)

$\overline{a\,\overline{br}} = \overline{a\,\overline{b}}\,\overline{a\,\overline{r}}$ (C8.1)

$\overline{\overline{a\,\overline{r}}\,\overline{x\,r}} = \overline{r\,a}\,\overline{rx}$ (C9.1)

General theorems

$$\overline{\overline{a_1 r}\,\overline{a_2 r}\,\ldots\,\overline{a_n r}\|} = \overline{\overline{a_1}\,\overline{a_2}\,\ldots\,\overline{a_n}\|}\,r \tag{J2*}$$

$$\overline{a_1 r}\,\overline{a_2 r}\,\ldots\,\overline{a_n r} = \overline{\overline{\overline{a_1}\,\overline{a_2}\,\ldots\,\overline{a_n}\|}\,r} \tag{J2.1*}$$

$$\overline{\overline{a_n b}\,\ldots\,a_2}\,a_1\,b = \overline{\overline{a_n}\,\ldots\,a_2}\,a_1\,b \tag{C2*}$$

$$\overline{a}\,\overline{b_1 r}\,\overline{b_2 r}\,\ldots\,\overline{b_n r}\| = \overline{a}\,\overline{b_1}\,\overline{b_2}\,\ldots\,\overline{b_n}\|\,\overline{a}\,\overline{r}\| \tag{C8*}$$

$$\begin{aligned}&\overline{\overline{a_1}\,\overline{r}\|\,\overline{\overline{a_2}\,\overline{r}\|}\,\ldots\,\overline{\overline{a_n}\,\overline{r}\|}\,\overline{\overline{x_1}\,r}\,\overline{\overline{x_2}\,r}\ldots\,\overline{\overline{x_m}\,r}\|}\\ &= \overline{r}\,a_1 a_2\ldots a_n\,\overline{r x_1 x_2\ldots x_m}\end{aligned} \tag{C9*}$$

For all even $n \geq 2$:

$$\overline{\overline{\overline{a_n}\,\ldots\,a_2}\,a_1} = \overline{a_n}\,a_{n-1}\ldots a_3 a_1\,\ldots\,\overline{a_4}\,a_3 a_1\,\overline{a_2}\,a_1 \tag{C7.1*}$$

and

$$\begin{aligned}&\overline{\overline{\overline{\overline{a_{n+1}}\,a_n}\,\ldots\,a_2}\,a_1}\\ &= \overline{a_{n+1}a_{n-1}\ldots a_3 a_1}\,\overline{a_n}\,a_{n-1}\ldots a_3 a_1\,\ldots\,\overline{a_4}\,a_3 a_1\,\overline{a_2}\,a_1\end{aligned} \tag{C7.2*}$$