

$\Delta Y / \Delta Y_u$

CIE tristimulus value difference

 ΔY normalized to ΔY_u $\Delta Y / \Delta Y_u$

$$L^* = 100(Y/Y_n)^{1/\ln(10)} \quad (Y_n=100, Y_u=18, 1 \leq Y \leq 100) \quad [1d]$$

$$dY = (2,4Y_n/100) \cdot (Y/Y_n)^{(\ln(10)-1)/\ln(10)} \quad [2d]$$

$$dY_u = \ln(10) \cdot (Y_u/Y_n)^{(\ln(10)-1)/\ln(10)} \quad [3d]$$

$$dY/dY_u = (Y/Y_u)^{(\ln(10)-1)/\ln(10)} \quad [4d]$$

$$\log(dY/dY_u) = \{(\ln(10)-1)/\ln(10)\} \log \cdot (Y/Y_u) \quad [5d]$$

