

$\Delta Y/\Delta Y_u$  $\Delta Y_{\text{CIELAB}}$  tristimulus-value difference normalized to  $\Delta Y_{\text{CIELAB},u}$ 

$$6 \quad L^* = 116 (Y/Y_n)^{1/3} - 16, \quad Y_n = 100, Y_u = 18, 1 \leq Y \leq 100 \quad [1d]$$

$$L^* = k_u (Y/Y_u)^{1/3} - 16, \quad k_u = 116 [Y_u/Y_n]^{1/3} = 65,50 \quad [2d]$$

$$dY/dY_u = (Y/Y_u)^{2/3} = [(Y/Y_n)^{2/3}] / [(Y_u/Y_n)^{2/3}] \quad [3d]$$

