

LABJND colour-difference formula of CIE 230:2019

Main integral equations with Y and Y_u of surround u

error

0,0044

$$dY = A_1[1+A_2Y] \quad A_1=0,0170, A_2=0,3343 \quad [5d]$$

$$dY_r = A_1[1+A_{2u}Y_r] \quad A_1=0,0170, A_{2u}=5,931, Y_r=(Y/Y_u) \quad [6d]$$

$$\frac{1}{A_1} \int \frac{dY}{1+A_2Y} = \frac{1}{A_1 A_2} \ln |1+A_2Y| = F^*(Y) \quad (A_3=1) \quad [5i]$$

$$dY = A_1[1+A_2Y]^{A_3} \quad 0,0018 \quad A_1=0,0251, A_2=0,1566, A_3=1,107 \quad [7d]$$

$$dY_r = A_1[1+A_{2u}(Y_r)]^{A_3} \quad A_1=0,0251, A_{2u}=2,778, A_3=1,107 \quad [8d]$$

$$\frac{1}{A_1} \int \frac{dY}{[1+A_2Y]^{A_3}} = \frac{1}{A_1} \frac{[1+A_2Y]^{(A_3+1)}}{A_2(A_3+1)} = F^*(Y) \quad (A_3 \neq 1) \quad [7i]$$