

$\log[(Y/\Delta Y) / (Y/\Delta Y)_u]$

CIELAB-Y contrast  
normalized to  $(Y/\Delta Y)_u$

$$C_r/C_{ru} = (Y/\Delta Y) / (Y/\Delta Y)_u$$

2 **100**  $L^* = s (Y/Y_n)^n - d \quad (Y_n=100, Y_u=18, s=116, n=1/3, d=16)$  [1a]

$L^* = r (Y/Y_u)^n - d \quad (r = s (Y_u/Y_n)^n = 65,49, L^*_u = r - d)$  [1b]

$Y/dY = Y / \{ [ (Y_n / (n s)) ] (Y / Y_n)^{1-n} \}$  [4c]

$(Y/Y)_u = Y_u / \{ [ (Y_n / (n s)) ] (Y_u / Y_n)^{1-n} \}$  [4d]

1 **10**  $(Y/dY) / (Y/dY)_u = (Y/Y_u)^n$  [4e]

$\log [(Y/dY) / (Y/dY)_u] = (n) \log(Y/Y_u)$  [4f]

