

$(Y/\Delta Y) / (Y/\Delta Y)_u$

LABJND-Y contrast

normalized to $(Y/\Delta Y)_u$

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

$$L^*/L^*_u = (t/a) \{ \ln(1 + a \cdot Y) - \ln(1 + a \cdot Y_u) \} \quad [1a]$$

$$L^*/L^*_u = (t/a) \{ \ln[1 + b \cdot (Y/Y_u)] - \ln(1 + b) \} \quad [1b]$$

$$(Y/dY) / (Y/dY)_u \quad \text{tristimulus value } Y \text{ contrast} \quad [4h]$$

$$= [Y / (1 + a \cdot Y)] / [Y_u / (1 + a \cdot Y_u)]$$

