

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

HAULAB-Y sensitivity
normalized to $(\Delta Y/Y)_u$

$$S_r/S_{ru} = (\Delta Y/Y) / (\Delta Y/Y)_u$$

$$L^* = s(Y/Y_u)^n - d \quad (Y_n=100, Y_u=28, s=153,7, n=0,31, d=53,7) \quad [1a]$$

$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 90,34, L^*_u = r - d = 36,6) \quad [1b]$$

6

4

2

0

Y_curve, ij=28, Yuij=28, L*uij=50

k=99, Ykij=400, L*kij=172,2, $(\Delta Y/Y) / (\Delta Y/Y)_u = 0,67$

k=28, Ykij=329, L*kij=150,1, $(\Delta Y/Y) / (\Delta Y/Y)_u = 0,99$

k=1, Ykij=302, L*kij=155,0, $(\Delta Y/Y) / (\Delta Y/Y)_u = 2,26$

k=0, Ykij=301, L*kij=154,8, $(\Delta Y/Y) / (\Delta Y/Y)_u = 2,81$

$\phi=30'$

$L_{aw} = 300 \text{ cd/m}^2$

application
range

$m_{u90_4} = -0,000, f_{90}=0, f_4=0$

$m_u = -0,682$

0,1

1

10

$Y_u=18$
 $Y_u=28$

0,990
0,674
0,409

log Y