

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

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

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

$$L^* = s(Y/Y_u)^n - d \quad (Y_n=100, Y_u=11, s=134,6, n=0,31, d=19,2) \quad [1a]$$

$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 79,10, L^*_u = r - d = 59,8) \quad [1b]$$

6

4

2

0

Y_curve, ij=3, Yuij=11, L*uij=50

k=99, Ykij=400, L*kij=187,5, $(\Delta Y/Y) / (\Delta Y/Y)_u = 0,51$

k=11, Ykij=312, L*kij=172,2, $(\Delta Y/Y) / (\Delta Y/Y)_u = 0,99$

k=1, Ykij=302, L*kij=170,3, $(\Delta Y/Y) / (\Delta Y/Y)_u = 1,73$

k=0, Ykij=301, L*kij=170,1, $(\Delta Y/Y) / (\Delta Y/Y)_u = 2,14$

$\phi = 120^\circ$

$L_{aw} = 40 \text{ cd/m}^2$

application range

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

$m_u = -0,638$

0,1

1

10

$Y_u=18$

$Y_u=11$

100

0,514

0,312

-2

-1

0

1

2

log Y