TUB registration: 20240701-ges1/ges1l0np.pdf /.ps
application for evaluation and measurement of display or print output
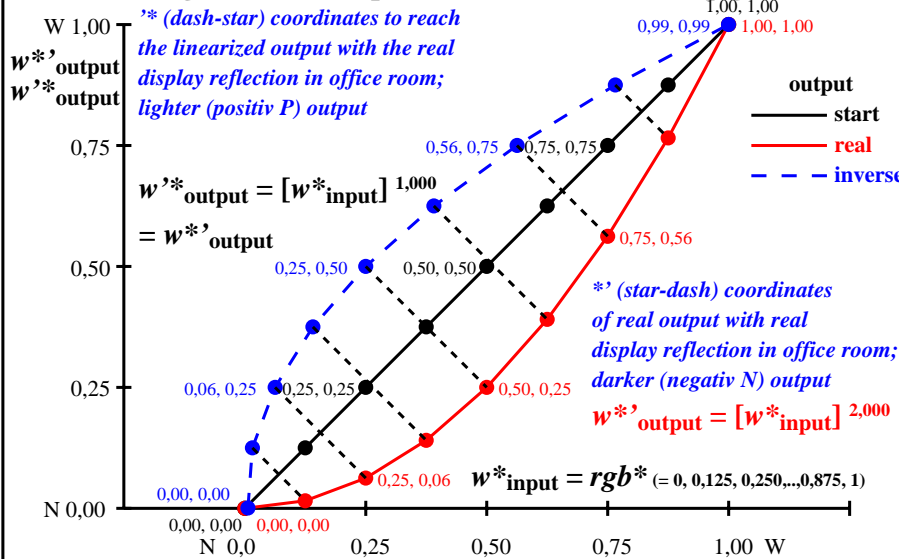TUB material: code=rha4ta

Calculation of inverse function for linearization of real output

gamma=2.0, indexFi=16,

xvredj: 0,000 0,125 0,250 0,375 0,500 0,625 0,750 0,875 1,000
yvredj: 0,000 0,015 0,062 0,140 0,250 0,390 0,562 0,765 1,000

yvred=0,000, im=0, yvredj_im=0,000, yvredj_im1=0,015
  im=0, j=0, yvredt=0,006, xvindt=0,000, xvindj=0,006, yvindj=0,000,
yvred=0,015, im=1, yvredj_im=0,015, yvredj_im1=0,062
  im=1, j=1, yvredt=0,000, xvindt=0,125, xvindj=0,015, yvindj=0,125,
yvred=0,062, im=2, yvredj_im=0,062, yvredj_im1=0,140
  im=2, j=2, yvredt=0,000, xvindt=0,250, xvindj=0,062, yvindj=0,250,
yvred=0,140, im=3, yvredj_im=0,140, yvredj_im1=0,250
  im=3, j=3, yvredt=0,000, xvindt=0,375, xvindj=0,140, yvindj=0,375,
yvred=0,250, im=4, yvredj_im=0,250, yvredj_im1=0,390
  im=4, j=4, yvredt=0,000, xvindt=0,500, xvindj=0,250, yvindj=0,500,
yvred=0,390, im=5, yvredj_im=0,390, yvredj_im1=0,562
  im=5, j=5, yvredt=0,000, xvindt=0,625, xvindj=0,390, yvindj=0,625,
yvred=0,562, im=6, yvredj_im=0,562, yvredj_im1=0,765
  im=6, j=6, yvredt=0,000, xvindt=0,750, xvindj=0,562, yvindj=0,750,
yvred=0,765, im=7, yvredj_im=0,765, yvredj_im1=1,000
  im=7, j=7, yvredt=0,000, xvindt=0,875, xvindj=0,765, yvindj=0,875,
yvred=0,999, im=7, yvredj_im=0,765, yvredj_im1=1,000
  im=7, j=8, yvredt=0,999, xvindt=0,999, xvindj=0,999, yvindj=0,999,

Colour management for output linearization of a 9 step grey scale

'* (dash-star) coordinates to reach the linearized output with the real display reflection in office room; lighter (positiv P) output

$w'*_{output} = [w*_{input}]^{1,000}$
$= w'*_{output}$

*' (star-dash) coordinates of real output with real display reflection in office room; darker (negativ N) output

$w*'_{output} = [w*_{input}]^{2,000}$

$w*_{input} = rgb*$ (= 0, 0,125, 0,250,...,0,875, 1)

output
— start
— real
-- inverse

W 1,00
$w*'_{output}$
$w'*_{output}$

1,00, 1,00
0,99, 0,99
1,00, 1,00
0,56, 0,75 0,75, 0,75
0,75, 0,56
0,25, 0,50 0,50, 0,50
0,75, 0,56
0,06, 0,25 0,25, 0,25
0,50, 0,25
0,00, 0,00 0,00, 0,00
0,25, 0,06
0,00, 0,00 0,00, 0,00

N 0,00
N 0,0   0,25   0,50   0,75   1,00 W

ges10-7n

Calculation of inverse function for linearization of real output

gamma=0.5, indexFi=17,

xvredj: 0,000 0,125 0,250 0,375 0,500 0,625 0,750 0,875 1,000
yvredj: 0,000 0,353 0,500 0,612 0,707 0,790 0,866 0,935 1,000

yvred=0,000, im=0, yvredj_im=0,000, yvredj_im1=0,353
  im=0, j=0, yvredt=0,000, xvindt=0,000, xvindj=0,000, yvindj=0,000,
yvred=0,353, im=1, yvredj_im=0,353, yvredj_im1=0,500
  im=1, j=1, yvredt=0,000, xvindt=0,125, xvindj=0,353, yvindj=0,125,
yvred=0,500, im=2, yvredj_im=0,500, yvredj_im1=0,612
  im=2, j=2, yvredt=0,000, xvindt=0,250, xvindj=0,500, yvindj=0,250,
yvred=0,612, im=3, yvredj_im=0,612, yvredj_im1=0,707
  im=3, j=3, yvredt=0,000, xvindt=0,375, xvindj=0,612, yvindj=0,375,
yvred=0,707, im=4, yvredj_im=0,707, yvredj_im1=0,790
  im=4, j=4, yvredt=0,000, xvindt=0,500, xvindj=0,707, yvindj=0,500,
yvred=0,790, im=5, yvredj_im=0,790, yvredj_im1=0,866
  im=5, j=5, yvredt=0,000, xvindt=0,625, xvindj=0,790, yvindj=0,625,
yvred=0,866, im=6, yvredj_im=0,866, yvredj_im1=0,935
  im=6, j=6, yvredt=0,000, xvindt=0,750, xvindj=0,866, yvindj=0,750,
yvred=0,935, im=7, yvredj_im=0,935, yvredj_im1=1,000
  im=7, j=7, yvredt=0,000, xvindt=0,875, xvindj=0,935, yvindj=0,875,
yvred=0,999, im=7, yvredj_im=0,935, yvredj_im1=1,000
  im=7, j=8, yvredt=0,998, xvindt=0,999, xvindj=0,998, yvindj=0,999,

Colour management for output linearization of a 9 step grey scale

'* (dash-star) coordinates to reach the linearized output with the real display reflection in office room; lighter (positiv P) output

$w'*_{output} = [w*_{input}]^{1,000}$
$= w'*_{output}$

*' (star-dash) coordinates of real output with real display reflection in office room; darker (negativ N) output

$w*'_{output} = [w*_{input}]^{0,500}$

$w*_{input} = rgb*$ (= 0, 0,125, 0,250,...,0,875, 1)

output
— start
— real
-- inverse

W 1,00
$w*'_{output}$
$w'*_{output}$

1,00, 1,00
1,00, 1,00 0,99, 0,99
0,75, 0,86
0,75, 0,75 0,86, 0,75
0,50, 0,70
0,25, 0,50 0,50, 0,50
0,70, 0,50
0,25, 0,25 0,50, 0,25
0,00, 0,00
0,00, 0,00 0,00, 0,00

N 0,00
N 0,0   0,25   0,50   0,75   1,00 W

ges11-7n