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1

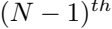
2

3

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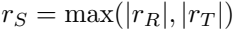










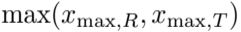


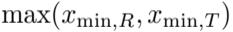




Wiederherstellung





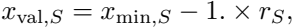


Wiederherstellung



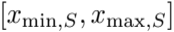
$$N_s = \text{int}\left(\frac{x_{\max,s} - x_{\min,s}}{r_s} + 1.5\right);$$

















Averaged channel intensity and weight (aligned spectra):

$$T_S(i) = \frac{w_R(i) \times T_R(i) + w_T(i) \times T_T(i)}{w_R(i) + w_T(i)} \quad (1)$$

$$w_S(i) = w_R(i) + w_T(i) \quad (2)$$



















WAVELENGTHS

$$\text{pdf}_R(x) = \frac{1}{\sigma_R \sqrt{2\pi}} \exp\left(-\frac{(x - \mu_R)^2}{2\sigma_R^2}\right)$$





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ECONOMICS  
AND BUSINESS

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$$w_R(i) = \frac{1}{\sigma_R(i)^2}$$

Resampled channel intensity (all weights):

$$T_{R'}(i) = \frac{\sum_{j=j_{\min}}^{j_{\max}} f_R(j) \times w_R(j) \times T_R(j)}{\sum_{j=j_{\min}}^{j_{\max}} f_R(j) \times w_R(j)} \quad (3)$$



00000000

[illegible]

0 1 2 3 4 5 6 7





$$\beta = \sum_{j=j_{\min}}^{j_{\max}} f_R(j) \times w_R(j)$$

$$o_R(\omega) = \frac{f_R(\omega) \times w_R(\omega)}{\rho}$$

1900

$$T_{R'}(i) = \sum_{j=j_{\min}}^{j_{\max}} a_R(j) \times T_R(j)$$

WORLD

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$$\text{var} \left( \sum_{j=j_{\min}}^{j_{\max}} \alpha_R(j) \times T_R(j) \right)$$

$$\sum_{j=j_{\min}}^{j_{\max}} \alpha_R(j)^2 \times \text{var} \left( T_R(j) \right)$$

$$\frac{1}{\beta^2} \sum_{j=j_{\min}}^{j_{\max}} f_R(j)^2 w_R(j)$$

$$\text{var}(aX + b) = a^2 \text{var}(X) + b^2$$









Resampled channel weight (weights TIME and SIGMA):

$$w_{R'}(i) = \frac{\left( \sum_{j=j_{\min}}^{j_{\max}} f_R(j) w_R(j) \right)^2}{\sum_{j=j_{\min}}^{j_{\max}} f_R(j)^2 w_R(j)} \quad (4)$$













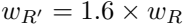


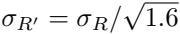
www.wool.com



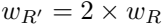


A pixelated, black and white graphic of the text "WAVELENGTH". The letters are rendered in a thick, blocky, sans-serif font. The "W" and "L" are particularly prominent, with the "L" having a long vertical stroke. The "A" is also large and blocky. The "E" is composed of several horizontal and vertical strokes. The "G" is a simple, rounded shape. The "H" is a simple, blocky shape. The "T" is a simple, blocky shape. The "I" is a simple, blocky shape. The "N" is a simple, blocky shape. The "D" is a simple, blocky shape. The "O" is a simple, blocky shape. The "B" is a simple, blocky shape. The "P" is a simple, blocky shape. The "Q" is a simple, blocky shape. The "R" is a simple, blocky shape. The "S" is a simple, blocky shape. The "X" is a simple, blocky shape. The "Y" is a simple, blocky shape. The "Z" is a simple, blocky shape. The "V" is a simple, blocky shape. The "U" is a simple, blocky shape. The "J" is a simple, blocky shape. The "K" is a simple, blocky shape. The "F" is a simple, blocky shape. The "C" is a simple, blocky shape. The "G" is a simple, blocky shape. The "H" is a simple, blocky shape. The "I" is a simple, blocky shape. The "J" is a simple, blocky shape. The "K" is a simple, blocky shape. The "L" is a simple, blocky shape. The "M" is a simple, blocky shape. The "N" is a simple, blocky shape. The "O" is a simple, blocky shape. The "P" is a simple, blocky shape. The "Q" is a simple, blocky shape. The "R" is a simple, blocky shape. The "S" is a simple, blocky shape. The "T" is a simple, blocky shape. The "U" is a simple, blocky shape. The "V" is a simple, blocky shape. The "W" is a simple, blocky shape. The "X" is a simple, blocky shape. The "Y" is a simple, blocky shape. The "Z" is a simple, blocky shape. The "A" is a simple, blocky shape. The "B" is a simple, blocky shape. The "C" is a simple, blocky shape. The "D" is a simple, blocky shape. The "E" is a simple, blocky shape. The "F" is a simple, blocky shape. The "G" is a simple, blocky shape. The "H" is a simple, blocky shape. The "I" is a simple, blocky shape. The "J" is a simple, blocky shape. The "K" is a simple, blocky shape. The "L" is a simple, blocky shape. The "M" is a simple, blocky shape. The "N" is a simple, blocky shape. The "O" is a simple, blocky shape. The "P" is a simple, blocky shape. The "Q" is a simple, blocky shape. The "R" is a simple, blocky shape. The "S" is a simple, blocky shape. The "T" is a simple, blocky shape. The "U" is a simple, blocky shape. The "V" is a simple, blocky shape. The "W" is a simple, blocky shape. The "X" is a simple, blocky shape. The "Y" is a simple, blocky shape. The "Z" is a simple, blocky shape.





A pixelated, black and white graphic of the text "WOW! WOW!". The letters are thick and blocky, with a jagged, pixelated edge. The exclamation marks are also pixelated and have a small dot. The overall style is reminiscent of early digital art or video game graphics.



OR

=

OR

OR

ORANGE

www.rw





Resampled channel weight (weight EQUAL):

$$w_{R'}(i) = \frac{\sum_{j=j_{\min}}^{j_{\max}} f_R(j) w_R(j)}{\sum_{j=j_{\min}}^{j_{\max}} f_R(j)} \quad (5)$$

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Averaged channel intensity and weight (non-aligned spectra):

$$T_S(i) = \frac{w_{R'}(i) \times T_{R'}(i) + w_{T'}(i) \times T_{T'}(i)}{w_{R'}(i) + w_{T'}(i)} \quad (6)$$

$$w_S(i) = w_{R'}(i) + w_{T'}(i) \quad (7)$$







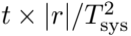


2017





1992-2016





$$\frac{t_{S_{\text{out}}} \times |r_{S_{\text{out}}}|}{T_{\text{sys}, S_{\text{out}}}^2} = \frac{t_{S_{\text{in}}} \times |r_{S_{\text{in}}}|}{T_{\text{sys}, S_{\text{in}}}^2} + \frac{t_{\text{obs}} \times |r_{\text{obs}}|}{T_{\text{sys}, \text{obs}}^2}$$

1990-2010

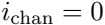
A pixelated, grayscale version of the Google logo. The letters are composed of a grid of black and white pixels, giving it a low-resolution, digital-art appearance. The logo is centered horizontally and occupies the middle portion of the image.

2020



valentines

$f(\text{chad}) = f(\text{rees}) \times f(\text{chad}) = f(\text{chad}) + f(\text{oi})$



various free software and tools

1990-1991

— *Leaves, roots* *Leaves, roots*







WORLDWIDE





Free, open, free, open