









responsible







1

2

3

4



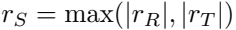






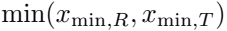




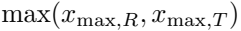




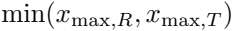








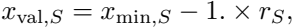






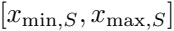
$$N_s = \text{int}\left(\frac{x_{\max,s} - x_{\min,s}}{r_s} + 1.5\right);$$

















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

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





VERIFIED OR

WORLD

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

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



0 1 2 3 4 5 6





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

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

1900

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

WORLD

WIRTSCHAFTS

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

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

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

$$\text{var}(aX + b) = a^2 \text{var}(X) + b^2 \text{var}(1)$$









Resampled channel weight (weights TIME and SIGMA):

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













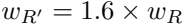


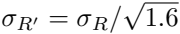
www.wool.com



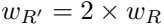


A pixelated, black and white graphic of the text "WAVELENGTH". The letters are thick and blocky, with a jagged, pixelated edge. The 'W' and 'L' are particularly prominent. The 'A' has a horizontal bar that is slightly offset. The 'E' has a distinct horizontal bar. The 'G' is rounded. The 'H' is composed of two vertical bars. The 'T' has a horizontal bar. The 'I' is a simple vertical bar. The 'N' is composed of two vertical bars. The 'D' is a simple vertical bar. The 'O' is a simple vertical bar. The 'B' is composed of two vertical bars. The 'J' is a simple vertical bar. The 'K' is composed of two vertical bars. The 'M' is composed of two vertical bars. The 'P' is composed of two vertical bars. The 'Q' is composed of two vertical bars. The 'R' is composed of two vertical bars. The 'S' is composed of two vertical bars. The 'V' is composed of two vertical bars. The 'X' is composed of two vertical bars. The 'Y' is composed of two vertical bars. The 'Z' is composed of two vertical bars. The '0' is composed of two vertical bars. The '1' is composed of two vertical bars. The '2' is composed of two vertical bars. The '3' is composed of two vertical bars. The '4' is composed of two vertical bars. The '5' is composed of two vertical bars. The '6' is composed of two vertical bars. The '7' is composed of two vertical bars. The '8' is composed of two vertical bars. The '9' is composed of two vertical bars.





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):

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

WORLD







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

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

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







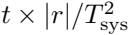


2017





1992-2000





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

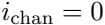
1990-2010

A pixelated, grayscale image of the text "openairtv" in a stylized, blocky font. The letters are composed of various shades of gray and black pixels, giving it a retro, digital appearance. The text is centered horizontally and occupies the middle portion of the image.



valentines

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



various free software and tools

WORLDWIDE

— 0 x f e , s o u t f e s t , s o u t







WORLDWIDE



val, sort, val, sort, val, sort

Free, open, free, open