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Notation

x	signal in time domain
X	signal in frequency domain
\mathbf{x}	vector
\mathbf{X}	matrix
S_{xx}	power spectral density estimate for the signal $x(t)$
S_{xy}	cross spectral density estimate for the signals $x(t)$ and $y(t)$
$S(f) \cdot H(f)$	multiplication
$s(t) * h(t)$	convolution
$X(f)^*$	complex conjugate
\mathcal{F}	Fourier transformation
$ x $	modulus of x
$\ \mathbf{x}\ $	Euclidian-norm of \mathbf{x}
$\langle \rangle$	average
\hat{x}	estimate of x

List of Symbols

E_{diffuse}	energy of signal component 'diffuse'
E_{free}	energy of signal component 'free'
E_{noise}	energy of signal component 'noise'
E_{reactive}	energy of signal component 'reactive'
E_x	energy of signal x
N	number of sources
P	source strength
S	room surface
T	reverberation time
V	room volume
Z	impedance
α_{ol}	overlap between two blocks in percent
α_c	decay rate for the exponential average in spectral density estimations