

List of Symbols

Symbol	Description
$S(\tau, f)$	Stockwell transform
$ S(\tau, f) $	Magnitude of Stockwell transform matrix
$\angle S(\tau, f)$	Phase angle of Stockwell transform matrix
$W(\tau, d)$	Wavelet transform
$CCF(x, y)$	Pearson correlation coefficient
$Cov(x, y)$	Covariance
f_{bng}	characteristic fault frequency in vibration spectrum
f_{bea}	characteristic fault frequency in current spectrum
BD	Ball diameter
PD	Pitch diameter
FI	Fault Index

