Direct Sequence Spread Spectrum

Block Parameters: Repeating Sequence Stair

Repeating Sequence Stair (mask) (link)

Discrete time sequence is output, then repeated.

Main | Signal Attributes

Vector of output values:

[1 1 0 1 1 1 0 0 1 1 0 1 0 1 0 1 0 0 0 0 1].'

Sample time:

0.5

OK | Cancel | Help | Apply

Block Parameters: Sine Wave Function

parameters in the two types are related through:

Samples per period = 2*pi / (Frequency * Sample time)

Number of offset samples = Phase * Samples per period / (2*pi)

Use the sample-based sine type if numerical problems due to running for large times (e.g. overflow in absolute time) occur.

Parameters

Sine type: Time based

Time (t): Use simulation time

Amplitude:

1

Bias:

0

Frequency (rad/sec):

2*pi*100

Phase (rad):

0

Sample time:

.001

☑ Interpret vector parameters as 1-D

OK | Cancel | Help | Apply

Block Parameters: Lowpass Filter

Lowpass Filter

Design a FIR or IIR lowpass filter

Source code

Main | Data Types

Parameters

Filter type:	IIR
☐ Design minimum order filter	
Filter order:	8
Passband edge frequency (Hz):	50
Maximum passband ripple (dB):	0.1
Minimum stopband attenuation (dB):	120
☐ Inherit sample rate from input	
Input sample rate (Hz):	44100

View Filter Response

Simulate using: Interpreted execution

OK | Cancel | Help | Apply