

Ben Van Roy Qualls Questions 2015

1. What is a band-limited signal?
2. How frequently do I need to sample such a signal if I want enough data to reconstruct it?
3. If I modulate the signal by multiplying it by a sine wave. How frequently do I need to sample the modulated signal if I want enough data to reconstruct it?
4. If the sample times are generated by a Poisson process with an average frequency equal to the frequency you specified, will the samples still be sufficient to reconstruct the signal?