



10. Power-Spectrum Estimator, as presented in his treatment, requires  $\Delta t = \Delta\theta$ , i.e.,  $\Delta t = \theta_{\text{max}} - \theta_{\text{min}}$  (see "Notes on the Fourier Transform" subsection of the Appendix). In practice,  $\Delta t$  is often taken to be a long exposure time (e.g., 10 minutes). From the Fourier Transform,  $\theta_{\text{max}} - \theta_{\text{min}} = 2\pi/\Delta t$ . If  $\Delta t = 10$  minutes, then  $\theta_{\text{max}} - \theta_{\text{min}} = 2\pi/(10 \times 60) = \pi/300$  rad. The corresponding frequency is  $f = \omega/(2\pi) = 1/(2\pi(\theta_{\text{max}} - \theta_{\text{min}})) = 1/(2\pi(\pi/300)) = 150$  Hz. This corresponds to a wavelength of  $\lambda = 2\pi/\theta_{\text{max}} - \theta_{\text{min}} = 2\pi/(2\pi/150) = 150$  m. However, the power spectrum is a measure of the variance of the signal, which is independent of the sampling interval. Thus,  $\Delta t$  can be as small as one second, and the resulting power spectrum will be the same.

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As a result, the number of patients with a history of stroke or TIA who are receiving anticoagulation therapy has increased over time.

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