Lecture 9 — System Analysis

Michael Brodskiy

Professor: I. Salama

November 20, 2024

• The Discrete Fourier Transform

$$X(e^{j\Omega}) = \sum_{k=\langle N_o \rangle} a_k e^{jk\frac{2\pi}{N_o}} n$$

• Convergence of the Discrete Time Fourier Transform

$$\sum_{n=-\infty}^{\infty} |x[n]| < \infty$$