Data

10⁰

10¹

10²

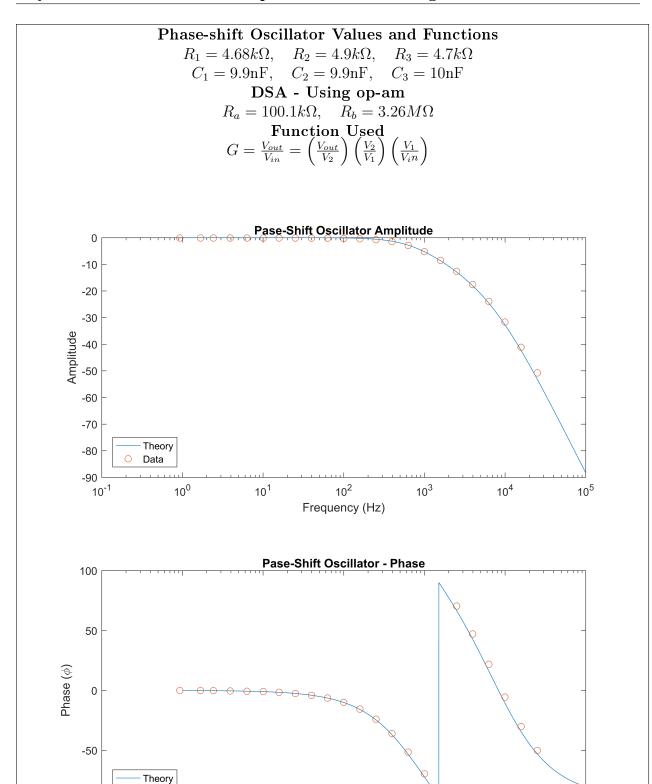
Frequency (Hz)

10³

10⁴

10⁵

-100 -10⁻¹



Buffered Phase-shift Oscillator Values and Functions $R_1 = 4.68k\Omega, \quad R_2 = 4.9k\Omega, \quad R_3 = 4.7k\Omega$ $C_1 = 9.9 \text{nF}, \quad C_2 = 9.9 \text{nF}, \quad C_3 = 10 \text{nF}$ DSA - Using op-am $R_a = 100.1k\Omega, \quad R_b = 1.2M\Omega$ $G = \frac{V_{out}}{V_{in}} = \left(\frac{1}{1+j\omega R_1 C_1}\right) \left(\frac{1}{1+j\omega R_2 C_2}\right) \left(\frac{1}{1+j\omega R_3 C_3}\right)$ **Buffered Phase-shift Oscillator - Amplitude** Theory -10 Data -20 -30 -40 -60 -70 -80 -90 10² 10⁴ 10⁵ 10⁰ 10¹ 10³ Frequency (Hz) **Buffered Phase-shift Oscillator - Phase** 100 Theory Data 50 Phase (ϕ) -50 -100 10⁰ 10¹ 10^2 10⁴ 10⁵ Frequency (Hz)

