

King Fahd University of Petroleum & Minerals

Electrical Engineering Department

EE 465: Power System Transmission & Distribution

(First Semester 051)

Quiz# 1: October 4, 2005

A completely transposed overhead line has three ACSR Flamingo conductors per bundle, with 0.5 m between conductors in the bundle. The horizontal phase spacing between bundle centers are 12, 12, and 12 m. The line length is 200 km and operates in Saudi Arabia. Calculate the inductive reactance of the line.