



UNIVERSITY
OF MANITOBA

DEPARTMENT OF ELECTRICAL AND COMPUTER
ENGINEERING

24.781 COMPUTATIONAL ELECTROMAGNETICS

ASSIGNMENT 4

Solution of Hallén's Integral Equation using MoM

November 26, 2003

Due Date: Friday, December 12, 2003

Use the Method of Moments to solve Hallén's integral equation formulated for a centre-fed dipole of length $2l_0$ and radius a . Use the specific method given by Collin [1] as discussed in class and reproduce the plots for the input impedance found on pp. 59-61.

[1] R.E. Collin, Antennas and Radiowave Propagation, McGraw-Hill, 1985.