TFY4235/FY8904 Computational Physics, Spring 2013

Problem Set 4

Problem 1.

This problem is a continuation of Problem 1 in Problem set 3.

Assume 1000 resistors with conductances that are distributed randomly between zero and one, are coupled in series. A potential drop equal to unity is set up between the ends of the resistor chain. Write a program that determines the potential drop over each resistor based on the *conjugate gradient algorithm*.