Answer sheet: Network models and linear systems

NAME

Part I. Preparatory exercises

EXERCISE 1

EXERCISE 2

Part II. Computer lab

EXERCISE 1
(Attach code)

Difference between pressure computed by your code and pressure computed by hand:

EXERCISE 2
(Attach code)

Sketch your network:

EXERCISE 3

Rule:

EXERCISE 4

What happened?

Why?

Computed solution time using matrix in `Bc0.mat`**:**

Estimated time per operation:

Estimated solution time using matrix in `Bc1.mat`**:**

Computed solution time using matrix in `Bc1.mat`**:**

Comments:

EXERCISE 6

Computed solution time using full matrix representation:

Computed solution time using sparse matrix representation:

Is there any benefit?

COMMENTS ON LAB

Fun/boring, easy/difficult, suggestions for improvement: