

Midterm Exam - Project II
Ma623 Stochastic Processes
due Tuesday May 12 2009

The project part 2 is related to the problem you described in project part I.

For this part choose a simple issue related to the problem you described and solve it.

First page should present the simplified problem related to the original project. You should explain very carefully the notation used, what exactly this simple issue will say and how does it relate to the more complex problem.

On the *second page* you should give a rigorous mathematical proof of the statement on the first page. This should be an exemplary proof very clear and avoiding unnecessary explanations.

That is all. You will be judged on the basis of the *clarity* of the proof on the second page and on the relevance of the issue to the big problem presented in Project I.

The work should be entirely original, any references to outside work should be properly documented. You may use software if you wish, and if it helps understand the problem but code should not be included with the project, only the relevant results properly explained.

Everything should be typed. Please use the formatting software or typewriter of your choice.