CE5310 Numerical Methods

Bonus Projects

1.) Solve project 2.2 on page 138 of your text. (50pnts)
2.) Solve project 3.4 on page 264 of your text. (100pnts)
3.) Solve project 4.1 on page 358 of your text. (100pnts)
4.) Solve project 5.1 on page 449 of your text. (150pnts)
5.) Solve project 7.1 on page 558 of your text. (150pnts)
6.) Solve project 8.3 on page 628 of your text. (200pnts)
7.) Solve project 9.3 on page 722 of your text. (300pnts)
8.) Solve project 10.1 on page 791 of your text. (350pnts)
9.) Solve project 11.1 on page 882 of your text. (400pnts)

It is your choice to present your solution with hand calcs or in MATLAB. It is expected you will use the methods presented in the textbook to complete the assignment, i.e. do not use specialized built in MATLAB functions, e.g. Symbolic Toolbox, to solve the problems.

You can earn a max of ***400 pnts***. Your solution should be correct, i.e. very little partial credit will be given. As this is bonus work, the instructor will provide very limited help on these projects.

Good Luck.

Deliverables:

1) A pdf including a title page, the problem statement, all m-file listings and example input and output. Preferably bookmarked.
2) All m-files, loaded separately, required for your solution to run, if you used MATLAB.

Grading:

Your solution will be graded based on completion of the above requirements, correct performance, neatness and professionalism of pdf submittal.

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