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Unit 8 - Week 7

Week 7 Assignment

The due date for submitting this assignment has passed. **Due on 2017-09-24, 11:59 IST.**

Submitted assignment

1) Report the value of h(nnode) for the 1D groundwater problem discussed in Lecture 31 with full matrix and impermeable boundary implementation using governing equation. Use the source code *gw1d_fd_gausselim.sci* with nnode= 21. ***1 point***

- 97.1955
- 91.1955
- 95.1955
- 92.1955

No, the answer is incorrect.
Score: 0

Accepted Answers:
95.1955

2) Report the value of h(nnode) for the 1D groundwater problem discussed in Lecture 31 with full matrix and impermeable boundary implementation using 3-point approach. Use the source code gw1d_fd_gausselim.sci with nnode= 31. ***1 point***

- 97.19414
- 91.19414
- 95.19414
- 92.19414

No, the answer is incorrect.
Score: 0

Accepted Answers:
95.19414

3) Report the value of h(nnode) for the 1D groundwater problem discussed in Lecture 31 with full matrix and impermeable boundary implementation using 2-point approach (first order approximation). Use the source code gw1d_fd_gausselim.sci with nnode= 31. ***1 point***

- 97.015067
- 91.015067
- 95.015067
- 92.015067

No, the answer is incorrect.
Score: 0

Accepted Answers:
95.015067

4) Report the value of h(nnode) for the 1D groundwater problem discussed in Lecture 31 with banded matrix and impermeable boundary implementation using 2-point approach (first order approximation). Use the source code gw1d_fd_tdma.sci with nnode= 31. ***1 point***

- 95.015067
- 97.015067
- 91.015067
- 92.015067

No, the answer is incorrect.
Score: 0

Accepted Answers:
95.015067

5) Report the value of h(10) for the 1D groundwater problem discussed in Lecture 31 with full impermeable boundary implementation using 3-point approach. Use the source code gw1d_fd_gseidel.sci with nnode= 31. ***1 point***

- 92.394856
- 97.394856
- 91.394856
- 95.394856

No, the answer is incorrect.
Score: 0

Accepted Answers:
92.394856

6) Report the value of spectral radius for the 1D groundwater problem discussed in Lecture 31 with impermeable boundary implementation using 2-point approach. Use the source code gw1d_fd_gseidel_scaled.sci with nnode= 31. ***1 point***

- 0.9140632
- 0.9470632
- 0.9240632
- 0.9740632

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.9740632

7) Report the value of h(15,10) for steady two dimensional confined aquifer flow (groundwater) using finite difference (2-point approach). Use the source code laplace_2D_iterative.sci with mnode=31, nnode=21. ***1 point***

- 87.543071
- 88.543071
- 88.453071
- 88.435071

No, the answer is incorrect.
Score: 0

Accepted Answers:
88.543071

8) Report the value of h(15,10) for steady two dimensional confined aquifer flow (groundwater) using finite difference (3-point approach). Use the source code unsteady_2D_explicit.sci with mnode=31, nnode=21. ***1 point***

- 89.466917
- 89.469917
- 89.449917
- 89.669917

No, the answer is incorrect.
Score: 0

Accepted Answers:
89.469917

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