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NPTEL

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Courses » Computational Hydraulics

Announcements

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Mentor

Unit 9 - Week 8

Course outline

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Assignment 8

The due date for submitting this assignment has passed. **Due on 2017-10-05, 23:59 IST.**

Submitted assignment

1) Report the value of $yv(201)$ for GVF using forward euler. Use the source code *forward_euler.sci* with $mnode=201$ and $Lx=200$. **1 point**

- 0.6450995
- 0.6404487
- 0.6404198
- 0.6404392
- 0.6404033

No, the answer is incorrect.

Score: 0

Accepted Answers:

0.6450995

2) Report the value of $yv(201)$ for GVF using modified euler (1st). Use the source code *modified_euler_1st.sci* with $mnode=201$ and $Lx=200$. **1 point**

- 0.6450995
- 0.6404487
- 0.6404198
- 0.6404392
- 0.6404033

No, the answer is incorrect.

Score: 0

Accepted Answers:

0.6404487

3) Report the value of $yv(201)$ for GVF using modified euler 2nd. Use the source code *modified_euler_2nd.sci* with $mnode=201$ and $Lx=200$. **1 point**

- 0.6450995
- 0.6404487
- 0.6404198
- 0.6404392
- 0.6404033

No, the answer is incorrect.

Score: 0

Accepted Answers:

0.6404198

4) Report the value of $yv(201)$ for GVF using RK2. Use the source code *RK2.sci* with $mnode=201$ and $Lx=200$.

1 point

- 0.6450995
- 0.6404487
- 0.6404198
- 0.6404392
- 0.6404033

No, the answer is incorrect.

Score: 0

Accepted Answers:

0.6404392

5) Report the value of $yv(201)$ for GVF using RK4. Use the source code *RK4.sci* with $mnode=201$ and $Lx=200$.

1 point

- 0.6450995
- 0.6404487
- 0.6404198
- 0.6404392
- 0.6404033

No, the answer is incorrect.

Score: 0

Accepted Answers:

0.6404033

6) Report the value of $h(10,10)$ for steady two dimensional groundwater flow through confined aquifer using finite volume method. Use the source code *unsteady_2D_fvm_conf_implicit_iterative.sci* with $mnode=31$, $nnode=21$. The top left boundary h_A height is 95m.

1 point

- 90.07551
- 90.74551
- 90.47551
- 90.44551

No, the answer is incorrect.

Score: 0

Accepted Answers:

90.74551

7) Report the value of $h(10,10)$ for steady two dimensional groundwater flow through confined aquifer using finite volume method. Use the source code *unsteady_2D_fvm_conf_implicit_iterative.sci* with $mnode=31$, $nnode=21$. The top left boundary height h_A is 95m. The value of S and T are respectively $10e-05$ and 100.

1 point

- 90.770893
- 90.550893
- 90.750893
- 90.570893

No, the answer is incorrect.

Score: 0

Accepted Answers:

90.750893

8) Report the value of $h(10,10)$ for steady two dimensional groundwater flow through confined aquifer using finite volume method. Use the source code *unsteady_2D_fvm_conf_implicit_iterative.sci* with $mnode=31$, $nnode=21$. The convergence criteria is $1e-3$. Top left boundary height h_A is 90m. Take $S=5e-5$ and $T=200$.

1 point

- 88.98436
- 88.88436
- 88.90436
- 88.551547

No, the answer is incorrect.

Score: 0

Accepted Answers:

88.98436

9) Report the value of $h(10,10)$ for steady two dimensional groundwater flow through confined **1 point** aquifer using finite volume method. Use the source code `unsteady_2D_fvm_conf_implicit_iterative.sci` with `mnode=31`, `nnode=21`. The convergence criteria is $1e-4$. Top left boundary height h_A is 90m. Take $S=5e-5$ and $T=200$.

- 88.98436
- 88.88436
- 88.90436
- 88.551547

No, the answer is incorrect.

Score: 0

Accepted Answers:

88.551547

10) Report the value of $h(10,10)$ for steady two dimensional groundwater flow through **1 point** unconfined aquifer using finite volume method. Use the source code `unsteady_2D_fvm_unconf_implicit_iterative.sci` with `mnode=31`, `nnode=21`. The value of K_x and K_y are 20 and 20. Take $S_y=0.5$.

- 88.523143
- 88.023143
- 88.553143
- 88.532143

No, the answer is incorrect.

Score: 0

Accepted Answers:

88.523143

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