sandipan_dey 🗸

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	3.5.5 Finger Exercise: Explicit or Implicit?			
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Discussions

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Finger Exercises 3 due Aug 17, 2023 05:00 IST Completed

Problem: Determine whether a method is explicit or implicit

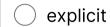
4/4 points (graded)

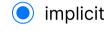
MO2.7

Consider the following method:

$$\underline{v}^{n+1} = \underline{v}^n + \frac{1}{2}\Delta t \left[\underline{f}(\underline{v}^{n+1}, t^{n+1}) + \underline{f}(\underline{v}^n, t^n) \right]$$
 (3.28)

Is this method explicit or implicit?







Consider the following method:

$$\underline{v}^{n+1} = \underline{v}^{n-1} + 2\Delta t \underline{f}(\underline{v}^n, t^n)$$
 (3.29)

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Is this method explicit or implicit?



explicit



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Consider the following method:

Careers

$$\frac{\underline{\underline{News}}}{\underline{\underline{v}}^{n+1}} = \frac{4}{3}\underline{\underline{v}}^n - \frac{1}{3}\underline{\underline{v}}^{n-1} + \frac{2}{3}\Delta t\underline{\underline{f}}(\underline{\underline{v}}^{n+1}, \underline{t}^{n+1})$$
(3.30)

Legal Is the method explicit or implicit?

Terms of Service & Honor Code

Privacy Policy explicit

Accessibility Policy

rademark Policy

Cookie Policy

Your Privacy Choices

Consider the following method:

Connect
$$\underline{a} = \Delta t \underline{f}(\underline{v}^n, t^n)$$

<u>Idea Hub</u>

$$\frac{\overline{\text{Idea Hub}}}{\overline{\text{Contact Us}}} \quad \underline{b} = \Delta t \underline{\underline{f}} \left(\underline{v}^n + \underline{a}/2, t^n + \Delta t/2 \right)$$

 $\frac{\text{Help Cente}^{n+1}}{n} = \underline{v}^n + \underline{b}$

Sechistmethod explicit or implicit?

(3.31)







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SOLUTION: The solution will be available shortly after the due date

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