

Central Mindanao University College of Engineering Civil Engineering Department

CE-33 Numerical Solutions to CE Problems

Long Quiz No.2 April 8, 2021

Instructions: Using A-4 or 8.5" x 11" size paper, solve the following neatly. Show all necessary solutions and assumptions clearly. Submit a scanned copy or a photo of your work in the Google classroom on or before the specified time.

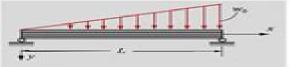
 Determine the approximate solution of the system of linear equations below using Gauss-Seidel Heration after 8 iterations. Show all iterations/solutions. Provide a brief discussion of your solution.

$$\begin{cases} 5x_1 + x_2 + x_3 - x_4 + 2x_5 = 0.2B + 7 \\ x_1 - 6x_2 + x_3 + x_4 - 2x_5 = 0.1C - 4.5 \\ 2x_1 + x_2 - x_3 - 8x_4 + 2x_5 = 0.15D - 3.5 \\ 2x_1 + x_2 + 2x_3 - 2x_4 + 7x_5 = 0.3A + 3 \\ -x_1 + 2x_2 + 6x_3 - x_4 - x_5 = 14 - 0.1C \end{cases}$$

Assume: $\begin{bmatrix} x_1^{(0)} \\ x_2^{(0)} \\ x_3^{(0)} \\ x_4^{(0)} \end{bmatrix} = \begin{bmatrix} 1 \\ 0 \\ 1 \\ 0 \end{bmatrix}$

 A simply supported I-beam is loaded with a distributed load, as shown. The deflection, y, of the center line of the beam as a function of the position, x, is given by the equation:

$$y = \frac{w_0 x}{360 LEI} \left(7L^4 - 10L^2 x^2 + 3x^4\right)$$

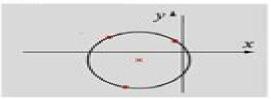


Where $\mathbf{L} = (4.2 \pm 0.3 \mathrm{C})$ m is the length, $\mathbf{E} = (70 \pm 0.5 \mathrm{D})$ GPa is the elastic modulus, $I = (52.9 \pm \mathrm{A}) \times 10^4$ m² is the moment of inertia, and $\mathbf{w}_0 = (18.5 \pm 0.58)$ kN/m. Find the position \mathbf{x} where the deflection of the beam is maximum, and determine the deflection at this point.

Hint: The maximum deflection is at the point where dy/dx = 0. Use **Newton - Raphson Method** with tolerance of 0.001, Provide a brief discussion of your solution.

In a Cartesian coordinate system the general equation of a circle is:

$$x^2 + y^2 + Dx + Ey + F = 0$$



Given three points, $\{(-1-0.1C), (3+0.58)\}$, $\{(-7.5+0.10), (4-0.28)\}$, and $\{(-5.5+0.2C), (-9.2+0.4A)\}$, Determine the equation of the circle that passes through the points.

Solve the problem by deriving a system of three linear equations and solve the system using Jacobi Reration up to 7 iterations and assume all initial values equal to 0.5. Provide a brief discussion of your solution.

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