Introduction to Week Six

Numerical Solutions of PDEs

Direct Solution of Boundary Value Problems

- Video: Discrete Laplace Equation |
 Lecture 62
 9 min
- Reading: Mean Value Property of the Laplace Equation
 10 min
- Video: Natural Ordering | Lecture 63
 - **Reading:** Coordinates of the four corners

🖒 Like

√ Dislike

Video: Matrix Formulation | Lecture 64 12 min

5 min

- Reading: The Discrete Laplace
 Equation on a Four-by-Four Grid
 10 min
- Reading: Number of Interior and Boundary Points
 10 min
- Video: MATLAB Solution of the
 Laplace Equation (Direct Method) |
 Lecture 65
 17 min
- Ungraded External Tool: Direct Solution of the Laplace Equation 30 min

Iterative Solution of Boundary Value Problems

Time-stepping Methods for Initial Value Problems

Quiz

Programming Assignment: Twodimensional Diffusion Equation

Farewell

Coordinates of the four corners

Report an issue

What are the k coordinates for the four corners of a rectangular box with n_x and n_y grid points in the x- and y-directions, respectively?

✓ Completed	Go to next item