Chapter 11

Partial Derivatives

Lecture 2

- Directional Derivative
    - ➢ Definition (Last Time)
    - ➢ Geometrical Interpretation
    - ➢ Physical Interpretation
    - ➢ How to Compute?
- Definition of the Gradient vector
- Application of Directional derivative
- Significance of Gradient Vector
    - ➢ Level Curves and Gradient Vector
    - ➢ Level Surfaces and Gradient Vector
- Tangent plane to Level Surfaces
- Connection with z = f(x, y)
- Local Max/Min (Next Time)