## Chapter 09.04

## **Multidimensional Gradient Search Method**

## OBJECTIVES

- 1. Understand how multi-dimensional gradient methods are different from direct search methods
- 2. Understand the use of first and second derivatives in multi-dimensions
- 3. Understand how the steepest ascent/descent method works
- 4. Solve multi-dimensional optimization problems using the steepest ascent/descent method