

CHAPTER OVERVIEW

10: Plane Polar and Spherical Coordinates



Objectives

- Understand the concept of area and volume elements in cartesian, polar and spherical coordinates.
- Be able to integrate functions expressed in polar or spherical coordinates.
- Understand how to normalize orbitals expressed in spherical coordinates, and perform calculations involving triple integrals.
- Understand the concept of probability distribution function.

[10.1: Coordinate Systems](#)

[10.2: Area and Volume Elements](#)

[10.3: A Refresher on Electronic Quantum Numbers](#)

[10.4: A Brief Introduction to Probability](#)

[10.5: Problems](#)

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