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### Mathematics for Physical Chemistry: Donald A. McQuarrie ...

Write this function in terms of Cartesian coordinates.  $\cos(\theta) = z/\psi_{210}$   $u_{0002} u_{0003}/2$   $1/1 = \sqrt{4}$   $2\pi a_0 u_{000e} z (x^2 + y^2 + z^2)^{1/2} \times \exp - a_0/2a_0$  fe16 Mathematics for Physical Chemistry b. The  $\psi_{211}$  function is given by  $\psi_{211} = \sqrt{8/\pi} u_{0002} 1/a_0 u_{0003}/2$  12.

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### **Mathematics for Physical Chemistry**

A mathematical function is a rule that gives value of a dependent variable that corresponds to specified values of one or more independent variables. A function can be represented in several ways, such as by a table, a formula, or a graph. Except for isolated points, the mathematical functions found in physical chemistry are single-valued.

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By reading these reviews before the mathematics is applied to physical chemical problems, a student will be able to spend less time worrying about the math and more time learning the physical chemistry. This book can also be used as a supplement with any traditional textbook on physical or quantum chemistry.

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**Publisher Summary** This chapter begins by stating that the first application of mathematics to chemistry deals with various physical quantities that have numerical values. It introduces the correct use of numerical values to represent measured physical quantities and the use of numerical mathematics to calculate values of other quantities.

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