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Syllabus

### Physics 406: INTRO TO SOLID STATE PHYSICS

The text in this chapter is based on 'Elementary Solid State P hysics' by M. Ali Omar. The book is no longer available. 1 Scattering from an atom The di raction process can be divided naturally into two sta ges: (1) scattering by in-dividual atoms, and (2) mutual interference between the sca ttered rays. Since the two

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Solutions of Selected Problems and Answers Chapter 1 Problem 1.5s The sphere and the probability distribution have both inversion and rotation symmetry; the first implies  $x = y = z = 0$  and the second in combination with the first implies  $\Delta x^2 = x^2 = \Delta y^2 = y^2 = \Delta z^2 = z^2 = \frac{1}{3} r^2$ . Hence,  $\epsilon_k = \frac{1}{2m} 3\Delta p^2 = \frac{3}{2m} \frac{1}{3} \Delta x^2 = \frac{1}{2m} \Delta x^2 = \frac{1}{2} \frac{\hbar^2 k^2}{m} = \frac{\hbar^2 k^2}{2m}$ .

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Solid State Physics / Optical Properties Fall 2015 Lecture 1 Andrei Sirenko, NJIT 2 Instructor: ... "Elementary Solid State Physics", Addison-Wesley, 1993. Charles Kittel, Introduction to Solid State Physics, 8th Edition, Wiley, 2004. ... solutions found in the Internet or elsewhere)

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