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Course Textbook: M. Ali Omar, Elementary Solid State Physics (Addison-Wesley 1993). Supplementary Text : C. Kittel, Introduction to Solid State Physics (John Wiley & Sons 2005). Syllabus

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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

Solid State Physics - Luleå University of Technology

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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 firstimplies $x = y = z = 0$ and the secondin combination with the first implies $\Delta x^2 = x^2 =\Delta y^2 = y^2 =\Delta z^2 = z^2 = 1/3 r^2$. Hence, $\epsilon k = 1/2m \cdot 3\Delta p^2 \times \approx 3/2m \cdot 4/1 \Delta x^2 = 9/2 \cdot 8m/r^2$.

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