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Solid State Physics

Elementary Solid State Physics. A short course. Charles Kittel. Wiley, New York, 1962. xii + 339 pp. Illus. \$8.75

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Solutions of Selected Problems and Answers 785 Chapter 3

Problem 3.1s According to (3.1) the viscosity  $\eta$  is equal to

$\eta = \tau / \dot{\gamma}$ , where  $\tau$  is the shear modulus and  $t$  is a characteristic time of motion of each water molecule;  $t$  is expected to be of the order of the period of molecular vibration  $T$  in ice:  $t = c_1 T = 2\pi c_1 / \omega$ , where  $\omega = c_2 / m a^2 B$

Solutions of Selected Problems and Answers

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512 REVIEW OF ELEMENTARY SOLID-STATE PHYSICS EX III II  $\psi(2l/2) = V_0$  FIGURE A1.1: One-dimensional potential well for electron confinement. where  $\psi_2 = 2m(V_0 - E)/\hbar^2$ . In region I,  $\psi_I = Be^{\kappa x}$ , but by symmetry, we only need to use the single boundary condition at  $x = l/2$  between regions II and III. At  $x = l/2$ , we have that  $\psi_{II} = \psi_{III}$  and  $\psi'_{II} = \psi'_{III}$ . For the symmetric solutions,

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