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The Oxford Solid State Basics Steven H. Simon University of Oxford OXFORD UNIVERSITY PRESS.

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Solutions of Selected Problems and Answers 785 Chapter 3 Problem 3.1s According to (3.1) the viscosity  $\hat{\eta}$  is equal to  $\hat{\eta} = \frac{1}{2} \sigma t$ , where  $\hat{\eta}$  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:  $t = c_1 T = 2\pi \sqrt{m/c_2}$ , where  $c_2 = c_1^2 / \rho$ .

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The Oxford Solid State Basics This lecture series constitutes a first undergraduate course in solid state physics delivered in an engaging and entertaining manner by Professor Steven H. Simon of Oxford University.

## 01. Introduction to Condensed Matter; Einstein Model of

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