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These solutions reflect assignments made by Professor David Huse at Princeton University during his semester course on Condensed Matter Physics during the fall of 2006. There are certainly faults in the homeworks (and several solutions that could have been

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obtained much more directly); but in general, I have tried to correct any any mistakes ...

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Marder, i.e. the gas is purely two-dimensional in the sense that only the ( $p=1$ ) band needs to be considered, and  $k$  is

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a two-dimensional vector with the length  $k = \sqrt{k_x^2 + k_y^2}$ . The most important quantity is the Fermi energy, which is determined by evaluating  $N$  at zero temperature:  $n = \frac{N}{A} = \int_0^{k_F} 2 \pi k dk = \frac{2\pi k_F^2}{2} = \pi k_F^2 \Rightarrow k_F = \sqrt{\frac{n}{\pi}}$  (2a)

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Education and Professor in the

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Department of Physics at the University of Texas at Austin, where he has been involved in a wide variety of theoretical, numerical, and experimental investigations. He specializes in the mechanics of solids, particularly the fracture of brittle materials.

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According to (3.1) the viscosity  $\eta$  is  
equal to  $\mu st$ , where  $\mu$  is the shear mod-  
ulus 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:  $t = c1T$

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$= 2\pi c_1 / \omega$ , where  $\omega = c_2 / m_e a_2 B$

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to the problems in Chapter 7 7.1  
Normals to surfaces  $\mathbf{r} = (x_1, x_2, x_3) = \mathbf{s}(t)$  is the parametrization of a curve lying within the surface defined by  $f(\mathbf{r}) = \epsilon$ .

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26 (magnetism) 27 (superconductivity) 1  
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0-521-84508-4. Michael P. Marder  
(2010). Condensed Matter Physics,

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second edition, John Wiley and Sons,  
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