

pute the compressibility at any pressure from 1 atm to P_m , the maximum pressure in the cell under the conditions used. If compressibility data is desired over a wider pressure range, the applied pressure may simply be increased appropriately and another pressure profile determined experimentally.

Although considerably more work (particularly theoretical) must be done, pressure profiles appear to offer a unique and convenient method for the determination of compressibilities. In the latter regard, compressibilities can be determined over a wide pressure range (probably up to 200 kbar) and perhaps in a single experiment. A diamond-anvil high-pressure cell equipped with a temperature jacket would probably permit the determination of compressibilities as a function of temperature as well, with only perhaps a microgram of material in a single compression, providing care is taken to obtain equilibrium conditions.

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