



**Figure 1.**  $M^{2+}-H_2O$  radial distribution function and coordination number as a function of radial distance. The radial distribution functions are given by the solid lines and the coordination numbers are given by the dotted lines. For clarity, the radial distribution function curves for each metal are offset from each other by 35 arbitrary units on the y-axis. Each of these curves asymptotically converges to unity. The right-hand ordinate scale provides coordination numbers.