**TABLE 3.1** Protein structural features revealed at different resolutions.

Resolution (Å)	Discernable Features
4.0-5.0	Protein shape General location of secondary structures
3.5	Outline (trace) of polypeptide chain
2.0-2.5	Amino acid side chains
1.0-1.2	Individual atoms, some hydrogen atoms (e.g., [26,27])
0.8	Hydrogen atoms <sup>*a</sup> Covalent bond valence

<sup>\*</sup>aHydrogen atom visibility can be used to determine the protonation states of ionizable residues, as well as the orientations of water molecules around (or inside) the protein.