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This short text is intended for first year undergraduates and introduces some concepts of chemical bonding in a clear, descriptive and essentially non-mathematical fashion. The text will find a place alongside textbooks containing more detailed formal coverage and mathematical descriptions. This book could form the basis of an introductory course on chemical bonding. The book addresses aspects of atomic orbital structure and uses this to develop a discussion of the bonding in diatomic and polyatomic molecules using Lewis dot structures, hybrid orbital, and molecular orbital methods. The prediction of molecular shape is addressed through the VSEPR method. It is valuable for students in first-year chemistry courses, as well as non-chemistry students requiring a readable introduction to chemical bonding.