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Sommario/riassunto	Using classification, diagrams and crystallography elements, we describe in this book the bonds in the crystals using the basic patterns. The use of various criteria such as ionicity character of the bonds, the use of hard sphere models, the Pauling rules and the spatial availability of ions all together make it possible to better understand the spatial organization of typical crystals. Through original representations, the structure and the nature of the bonds in binary crystals of MX- and MX ₂ - types as well as the ternary crystals of the perovskite and spinel type are studied.