



The first part of the paper is devoted to a discussion of the  
 general principles of the theory of the structure of the  
 crystal lattice. It is shown that the structure of the  
 lattice is determined by the forces of attraction and  
 repulsion between the atoms. The forces of attraction  
 are due to the van der Waals forces, and the forces  
 of repulsion are due to the Pauli exclusion principle.  
 The balance of these forces determines the equilibrium  
 distance between the atoms, and hence the structure of  
 the lattice. It is shown that the structure of the  
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The second part of the paper is devoted to a discussion of the  
 properties of the crystal lattice. It is shown that the  
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