

## NATURE OF HYDROGEN BOND IN WATER

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### S u m m a r y

The work is devoted to the investigation of the physical nature of H-bonds. The H-bond potential  $\Phi_H(r, \Omega)$  is studied as an irreducible part of the interaction energy of water molecules. It is defined as a difference between the generalized Stillinger–David potential and the sum of dispersive and multipole interaction potentials. The relative contribution of  $\Phi_H(r, \Omega)$  to the intermolecular potential does not exceed  $(10 \div 15)\%$ .