

APPLICATION OF SURFACE WAVES  
FOR STUDYING THE CHARACTERISTICS  
OF GAS-TRAPPING SENSORS LOCATED  
ON A SOLID SURFACE

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S u m m a r y

Dispersion relations for surface waves and attenuation parameters in a crystal with the impurity monolayer adsorbed on its top are studied. We consider a face-centered cubic crystal with central interaction between the nearest neighbors as a model and calculate the value of  $m_0^*$  for the adsorbed surface monolayer. Beginning from it ( $m_0 < m_0^*$ ), the surface wave splits off the upper edge of the volume spectrum and attenuates non-monotonously (with oscillations), when penetrating into the crystal bulk.