

A MICROSCOPIC THEORY OF REFLECTION
AND REFRACTION OF WAVES ON LAYERED
CRYSTALS

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S u m m a r y

Within the method of working field generalized to $2D$ periodic structures, the problem of reflection and refraction of waves on layered crystals is solved. A general case is considered, when a monoatomic plane and a layer of macroscopic size can be taken as a layer. The Airy method determines the amplitudes of reflected and refracted waves. The factors of reflection and passing of waves are received by the Ewald - Oseen theorem of repayment without use of boundary conditions.