

Bragg diffraction of waves in one-dimensional doubly periodic media

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1994

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Keywords:

Abstract: The Bragg diffraction of waves in one-dimensional doubly periodic media is analyzed by means of Kogelnik's coupled-waves technique. The spectrum problem and the problem of reflection from a half-space and from a layer are considered. It is shown that a devil's-staircase type of spectrum causes characteristic peaks and valleys in the frequency dependence of the reflection coefficient.

Published in: Physical Review B: Condensed matter (1994), v. 50, pp. 3631-3635. – DOI: 10.1103/PhysRevB.50.3631.

Интернет-ссылка на статью:

<https://journals.aps.org/prb/abstract/10.1103/PhysRevB.50.3631>.