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**Reflection and refraction of Lagrangian manifolds corresponding to short-wave solutions of the wave equation with an abruptly varying velocity.** (English) Zbl 1468.35033

Russ. J. Math. Phys. 28, No. 2, 137-146 (2021).

Summary: In this work, we describe the propagation of waves in media containing localized rapidly changing inhomogeneities (for example, narrow underwater ridges or pycnoclines in ocean, layers with drastically changing optical or acoustic density, etc.).

**MSC:**

[35C20](#) Asymptotic expansions of solutions to PDEs

[35C10](#) Series solutions to PDEs

[35L15](#) Initial value problems for second-order hyperbolic equations

Cited in 1 Document

**Keywords:**

propagation of wave packets; construction of the canonical Maslov operato

**Full Text:** [DOI](#)

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