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Reflection of singularities in inhibited hyperbolic shells. (Réflexion des singularités dans les coques hyperboliques inhibées.) (French. Abridged English version) [Zbl 0914.73029](#)

C. R. Acad. Sci., Paris, Sér. II, Fasc. b, Méc. Phys. Astron. 326, No. 10, 609-614 (1998).

Summary: In order to study the reflection phenomena, we need to distinguish between different types of inhibited hyperbolic shells. The essential fact is the interaction between the coupling of equations and unknowns subjected to boundary conditions. Since the general case of hyperbolic surfaces can be reduced to two special cases, we focus our attention on their study. We apply our results to the hyperbolic paraboloid and present some numerical simulations.

MSC:

[74K15](#) Membranes

Cited in **3** Documents

Keywords:

general hyperbolic surfaces; coupling of equations and unknowns; hyperbolic paraboloid

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