



Reflection from a Flat Dielectric Film with Negative Refractive Index

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We analyse the reflection of a TM electromagnetic field first on a flat dielectric film and second on a Veselago film with negative refra ctive index, both films being deposited on a metallic substrat acting as a mirror. An incident harmonic plane wave generates inside a conventi onal dielectric film a refracted propagating wave and an evanescent wave that does not contribute to reflection on the metallic substrat so that part of the information

conveyed by the incident field is lost. At the opposite, inside a Veselago film, evanescent waves are changed into outbursting waves reflecting on the metallic substrat and participating to the total reflected field from the metallic film without loss if information.

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