

Article

On the Transmittance of Metallic Superlattices in the Optical Regime and the True Refraction Angle

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Abstract: Transmission of electromagnetic fields through *(dielectric/metallic)ⁿ* superlattices, for frequencies below the plasma frequency ω_p , is a subtle and important topic that is reviewed and further developed here. Recently, an approach for metallic superlattices based on the theory of finite periodic systems was published. Unlike most, if not all, of the published approaches that are valid in the $n \rightarrow \infty$ limit, the finite periodic systems approach is valid for any value of n , allows one to determine analytical expressions for scattering amplitudes and dispersion relations. It was shown that, for frequencies below ω_p , large metallic-layer thickness, and electromagnetic fields moving along the so-called “true” angle, anomalous results with an apparent parity effect appear. We show here that these results are related to the lack of unitarity and the underlying phenomena of absorption and loss of energy. To solve this problem we present two compatible approaches, both based on the theory of finite periodic systems, which is not only more accurate, but has also the ability to reveal and predict the intra-subband resonances. In the first approach we show that by keeping complex angles, above and below ω_p , the principle of flux conservation is fully satisfied. The results above ω_p remain the same as in Pereyra (2020). This approach, free of assumptions, where all the information of the scattering process is preserved, gives us insight to improve the formalism where the assumption of electromagnetic fields moving along the real angles is made. In fact, we show that by taking into account the induced currents and the requirement of flux conservation, we end up with an improved approach, with new Fresnel and transmission coefficients, fully compatible with those of the complex-angle approach. The improved approach also allows one to evaluate the magnitude of the induced currents and the absorbed energy, as functions of the frequency and the superlattice parameters. We show that the resonant frequencies of intra-subband plasmons, which may be of interest for applications, in particular for biosensors, can be accurately determined. We also apply the approach for the transmission of electromagnetic wave packets, defined in the optical domain, and show that the predicted space-time positions agree extremely well with the actual positions of the wave packet centroids.

Keywords: transmittance of electromagnetic fields; metallic superlattices; the true refraction angle in metals; plasmon resonances in optical regime; induced currents and absorption; phase time in metallic superlattices; biosensors



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1. Introduction

Interest in the response of metallic structures to electromagnetic fields (EMFs) has grown as the possibilities of application of their properties increase. The research activity evolved along different trails, determined by the dimension, shape, size, and order of the metallic structure. The scattering of light by small metallic particles, or cylindrical and rectangular rods, requires different approaches than the scattering by layered metallic structures. The geometrical differences of the scatterer systems imply, naturally, the use of different mathematical tools, for example, scattering matrices S , in lower-dimensional cases, and transfer matrices M , for layered systems. Here, we are interested in layered structures, specifically *(dielectric/metallic)ⁿ* superlattices with n finite. As shown in ref. [1],

Metallic Superlattices

Zhe Xu



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