



Polarization-dependent Goos–Hänchen shift at a graded dielectric interface

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ABSTRACT

We examine the polarization differential Goos–Hänchen beam shift upon total internal reflection, for a graded-index dielectric interface. We find a generic scaling law where the magnitude of this shift depends solely on the product of wavelength and gradient steepness. The analytic results are extended using transmission matrix calculations in cases where the assumptions made to allow analytical treatment might become questionable. Two important cases in this category are: (i) incident angle close to the critical angle and (ii) gradients with an overall thickness of the order of a wavelength. We demonstrate this effect experimentally using a polymer-blend sample with a gradual refractive-index transition induced by diffusion.

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1. Introduction

When a light beam undergoes total internal reflection 100% of its energy is reflected. Because evanescent fields penetrate into the lower-index medium, the reflected beam does not follow the geometrically expected path, but is translated a little, the amount depending on the polarization of the incident light. This translation, known as the Goos–Hänchen (GH) shift [1], is a correction to geometric optics. It arises because the plane-wave components of the incident beam pick up a phase jump upon reflection that depends on the incident angle.

The GH effect has been studied for interfaces separating homogeneous dielectric media [1] and metamaterials [2], as well as for metallic [3] and absorbing [4,5] layers. In inhomogeneous media, the polarization-dependent GH effect is unexplored yet: since abrupt interfaces are a special case of graded transitions, new insight can be obtained by comparing these two cases (see, e.g., [6,7]). The characteristic geometric parameter of total internal reflection, i.e. the critical angle, is the same for gradual and abrupt transitions but the beam is not abruptly but gradually steered into the reflected direction. This brings us to the question that we address here: how does the (polarization-dependent) GH beam shift depend on the refractive index profile?

Since graded-index (GRIN) dielectrics are very important for waveguide optics, the influence of polarization on the phase of a propagating mode has been investigated theoretically in a cylindrical geometry [8]. However no analytical results or experimental tests for the polarization

differential GH beam displacement in GRIN media have been reported. The GH shift in 1D GRIN media has only been studied theoretically, for perpendicular (TE) polarization [9]. A related effect, the transverse shift of a circularly polarized beam in a GRIN medium can be described within the Berry-phase framework [10]. Recently, Blöchl et al. [11] developed an analytic theory describing ray paths in general inhomogeneous media emphasizing geometric phases. In principle the analytic part of our investigations is contained in this theory, we however find direct analytic and numeric results for the special, experimentally attractive case of a planar (1D) structure, which was not discussed before [10,11]. Here we discuss only the case of total reflection, tunneling of light in GRIN media has been studied in [12,13]. The 1D GRIN medium is also the simplest case in the very young field of transformation optics [14,15]: there, the full potential of inhomogeneous media is demonstrated, concealing objects and allowing omnidirectional retro-reflection to name a few examples. The GH shift that we discuss here marks a general limit of such devices.

In this paper we first give an analytical theory of the polarization-dependent GH beam shift for a graded interface, subsequently we extend the results using numerical simulation for cases where the assumptions made for analytical treatment are questionable. Finally, we give a first experimental demonstration of the effect.

2. Theory and numerical simulations

As a starting point of our analytic description, we take a linearly polarized Gaussian light beam that undergoes total internal reflection in a 1D graded dielectric structure (see Fig. 1). Because we are interested in beam displacements in the plane of incidence, it is sufficient to analyze Maxwell's equation in two dimensions.

For simplicity we assume an infinitely extended refractive-index gradient. The gradient is along the x axis and $n(x)$ is decreasing with

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