

6. Nonlinear Optical Properties of Glass

Marc Dussauze, Thierry Cardinal

Numerous innovations in photonics have been realized on the basis of nonlinear optical properties, notably in information technologies. To take advantage of the nonlinear optical properties of glass, multidisciplinary research efforts were necessary, combining optics, glass chemistry, material science, as well as development of optical or electrical polarizations processes. This chapter addresses both fundamental aspects of nonlinear optical responses and also the exploitation of nonlinear optical phenomena in glassy material. It starts by a general introduction to nonlinear optical phenomena and concepts. Then, the specific cases of second and third optical responses in glasses are treated separately and described in detail as a function of the corresponding optical phenomena, the various glass families, and their applications.

The investigations of nonlinear optical (NLO) properties of glass are intimately related to the discovery of lasers [5.1]. In the early age of lasers, most of the investigations were devoted to crystals and especially to noncentrosymmetric materials such as quartz, LiNbO_3 , KTiOPO_4 (KTP), and $\alpha\text{-BaB}_2\text{O}_4$ (BBO) [5.2]. Numerous innovations in photonics were realized, such as frequency conversion, which allows expansion of the range of accessible wavelengths by taking advantage of second and third harmonic generation or frequency sum or difference using only one or a few mono-chromatic laser lines due to the high-power laser material interaction. Glasses, due to their isotropic nature, do not exhibit second-order nonlinearity such as second harmonic generation (SHG) or electro-optic effects (Pockels effect). In contrast to the field of crystalline compounds for which the NLO properties have led to a rapid scientific and technological revolution, NLO phenomena in glass have been considered more like a constraint for practical use. Indeed, the interest in NLO properties of glass

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appeared with the development of high-power lasers and the growth of the optical information transmission in the telecom sector. The main objectives were to investigate the light propagation and the perturbation of the wave front while limiting the detrimental effects of NLO phenomena in waveguides where a high density of photons occurs. For instance, the Kerr effect (third-order nonlinearity), at the origin of a change in the refractive index with the laser intensity, is responsible for a spectacular self-focusing phenomenon due to the formation of a photo-induced lens directly linked to the intensity-spatial profile of the beam. This lensing could result, at worst, in an optical breakdown or in an alteration of the wave front propagation.

Such effects are still of importance for laser ignition facilities such as the megajoule laser (LMJ) in France or the National Ignition Facility in the USA. In the telecommunications sector, the issue was raised by the current use of small fiber core diameter of a few micrometers in which the power density of the optical

Part 6

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