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### **Applications of Nonlinear Fiber Optics By Agrawal, G. P**

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nonlinear effects occurring inside fibers. Useful for optical communications systems. Dispersive and nonlinear effects balanced when  $L_{NL} = L_D$ . Nonlinear length  $L_{NL} = 1/(gP_0)$ ; Dispersion length  $L_D = T_2^2 / \beta_2$ . Two lengths become equal if peak power and width of a pulse satisfy  $P_0 T_2^2 = \beta_2 / g$ .

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The origin of nonlinear optics is the nonlinear response of the material to internal electric fields. The material response is manifest in a susceptibility. The linear susceptibility is related to the refractive index through  $\tilde{\chi}^{(1)} = n^2 - 1$ . When intense light enters a transparent material, its susceptibility can become nonlinear.

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In the past few decades, surface plasmon resonance (SPR) phenomenon along with optical fiber technology has emerged as a major area of research among the fiber optic sensing research groups.

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diversity of nonlinear optics stems, in part, from the need for all-optical and electro-optical devices for applications in telecommunications, optical storage, and all-optical computing.

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