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systematically explored the idea that  
optical phenomena in general arise  
from the motion of elementary charges  
and dipoles that are more or less free  
to respond to the electric and magnetic  
fields associated with light waves.

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Optical resonance of a two-level atomic system Munir H. Nayfeh\* Oak Ridge National Laboratory. Oak Ridge, Tennessee 37830 Ali H. Nayfeh Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061 (Received 29 September 1975; in final form 20 February 1976) The method of multiple scales is used to derive a solution of the ...

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The enhancement of SHG can be done by the use of optical resonance. First, let's consider the external cavity SHG, which is shown in Fig. 7, where the output power of the oscillator into the resonator is  $I_0$ , the

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reflectivities of the input side and the other side mirrors are  $R_1$  and  $R_2$ , the circulation power in the resonator is  $I_c$ . As it is well known, [16] the highest enhancement of the ...

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the natural frequency of the system, which is a ...

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title = "Optical resonance of a two-level atomic system", abstract = "The method of multiple scales is used to derive a solution of the damped optical Bloch equations of a two-level atomic system due to a strong pulsed field.

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