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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 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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