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# Optical Resonance And Two Level Atoms Dover Books On Physics

**optical resonance of a two-level atomic system** - 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 ... **port: a piezoelectric optical resonance tuner** - port: a piezoelectric optical resonance tuner bin dong<sup>1</sup>, hao tian<sup>1</sup>, michael zervas<sup>2</sup>, tobias j. kippenberg<sup>2</sup>, and sunil a. bhave<sup>1</sup> <sup>1</sup> oxidemems lab, purdue university, west lafayette, in, usa <sup>2</sup> École polytechnique fédérale de lausanne (epfl), ch-1015 lausanne, switzerland abstract this abstract presents an aluminum nitride (aln) piezoelectric actuator for tuning optical resonance modes **optical pumping - university of michigan** - matrix, and resonance. optical pumping is important to a wide variety of applications from the laser, to precise measurements of atomic hyperfine level splittings and atomic clocks, sensitive measurements of weak magnetic fields, and recently to enhance nmr and mri. this experiment provides an array of measurement **optical fano resonance of an individual semiconductor ...** - field optical interactions in such nanoscale systems that typically remain hidden in a far-field light scattering experiment<sup>16</sup>. to obtain a complete picture behind the origin and nature of a fano resonance, it is required to quantify the frequency-dependent energy storage that occurs in the resonant scattering pathway. **optical resonance engineering for infrared letter ...** - optical resonance engineering for infrared colloidal quantum dot photovoltaics olivier ouellette,<sup>†</sup> nadir hossain,<sup>†</sup> brandon r. sutherland,<sup>†</sup> amirreza kiani,<sup>†</sup> f. pelayo garcía de arquer,<sup>†</sup> hahren tan,<sup>†</sup> mohamed chaker,<sup>‡</sup> sjoerd hoogland,<sup>†</sup> and edward h. sargent\*,<sup>†</sup> <sup>†</sup>department of electrical and computer engineering, university of toronto, 10 king's college road, toronto, ontario ... **optical magnetometry - arxiv** - in nuclear magnetic resonance (nmr) and magnetic-resonance imaging (mri), direct detection of magnetic fields from the heart and the brain, magnetic microscopy, and measuring magnetic fields in space. in this paper, we outline the basic principles and fundamental limits of the sensitivity of optical atomic mag- **optical resonance in far-infrared spectra of multiwalled ...** - optical resonance in far-infrared spectra of multiwalled carbon nanotubes takahiro morimoto<sup>1</sup> and toshiya okazaki<sup>1,2\*</sup> <sup>1</sup>technology research association for single wall carbon nanotubes (tasc), tsukuba, ibaraki 305-8565, japan <sup>2</sup>nanotube research center, national institute of advanced industrial science and technology (aist), tsukuba, ibaraki 305-8565, japan **optically detected magnetic resonance imaging - arxiv** - detected magnetic resonance (odmr). odmr is a very sensitive technique that can detect a small number of paramagnetic species - even single spins - in specific systems whose optical transitions are coupled to their magnetic levels.<sup>1</sup> in recent years this technique has picked up a significant momentum, due **the optical cavity - cwsei** - 1. explore the concepts of resonance, spatial mode matching, and resonator stability using the tem<sub>00</sub> transverse mode of a helium-neon laser and an external two-mirror optical cavity. 2. couple higher-order hermite-gaussian modes into the cavity and determine the optical frequency spectrum associated with these different **calculated absorption and scattering properties of gold ...** - and optical resonance wavelengths for three commonly used classes of nanoparticles: gold nanospheres, silica-gold nanoshells, and gold nanorods. the calculated spectra clearly reflect the well-known dependence of nanoparticle optical properties viz. the resonance wavelength, the extinction cross-section, and the ratio of **optical resonance transmission properties of nano-hole ...** - optical resonance transmission properties of nano-hole arrays in a gold film: effect of adhesion layer mohamadreza najiminaini,<sup>1,2</sup> fartash vasefi,<sup>1, 2, 3</sup> bozena kaminska,<sup>1</sup> jeffrey j.l. carson<sup>2, 3</sup>, \* <sup>1</sup> **electron spin resonance of nitrogen-vacancy centers in ...** - electron spin resonance of nitrogen-vacancy centers in optically trapped nanodiamonds viva r. horowitz, benjamin j. alemán, david j. christle, andrew n. cleland, and david d. awschalom<sup>1</sup> department of physics, university of california, santa barbara, ca 93106

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