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#12 Problem 1

(easy) Express the Lamb-Dicke parameter $\eta = k \sqrt{\hbar / 2m\omega}$ in terms of the ratio of the recoil energy acquired by an ion at rest by absorbing a photon of frequency ω and the energy $\hbar\omega_p$ of a phonon. What

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#6 Problem 1

(part 1+2 easy,
part 3 tricky)

1. Consider a two-
level atom which
is initially

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state $|j\rangle$, and
which interacts
resonantly
(i.e., the
detuning is
zero, $\Delta = 0$)
with a general
single-mode
light $E = \sum_{j=1}^N \sum_{n=0}^{\infty} c_{jn} |j, n\rangle$, as
described by the
Jaynes-Cummings-
model.

Where To Download Exercises On Quantum Optics I Exercise Sheet #6

Nonlinear and
Quantum Optics
Eliminate $H?$ and
 $D?$ using Eqs.
(1.5) and (1.6).
Use $\epsilon_0\mu_0 = 1/c^2$.
Take the curl of
both sides of
Eq. (1.3) and
substitute $\nabla \times ?$

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B? from Eq. On

(1.4). Use the
identity $\epsilon_{ijk} \epsilon_{lmn} = \det \begin{pmatrix} \delta_{il} & \delta_{im} & \delta_{in} \\ \delta_{jl} & \delta_{jm} & \delta_{jn} \\ \delta_{kl} & \delta_{km} & \delta_{kn} \end{pmatrix}$

$E_i = \epsilon_{ijk} \nabla_j A_k$

$(\nabla \cdot E)_i = \nabla_j E_j$

$\epsilon_{ijk} \nabla_j E_k = \epsilon_{ijk} \nabla_j \epsilon_{klm} \nabla_l A_m$ (1.10)

Apply Eq.

PHYSICS 673

Nonlinear and

Quantum Optics

Quantum Optics

This course will
be closely based

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Vedral. The
recommended self-
study exercises
and answers are
simply problem
sets 3, 4 and 5
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and the main
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Eigenvalues of
the Hamiltonian
in quantum
optics

Two

possibilities

+1/2, -1/2. 2.

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State the number
of possible
electrons
described by the
following

quantum numbers

a. $n = 3, l = 0$

2. b. $n = 3, l =$

1 6. c. $n = 3, l$

$= 2, m_l = -1 2.$

d. $n = 5, l = 0,$

$m_l -2, m_s -1/2$

Not possible. 3.

Give the n and l

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values for the
following
orbitals a. $1s$
 $n=1, l=0$. b. $3s$
 $n=3, l=0$.

QUANTUM NUMBERS

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exercises and
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sidelights.

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