

# **Sakurai Modern Quantum Mechanics Solutions Manual**

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Sakurai and Jim Napolitano Jim  
Napolitano napolj@rpi.edu January  
27, 2014 Contents 1 Fundamental  
Concepts 2 2 Quantum Dynamics  
15 3 Theory of Angular Momentum

## 34 4 Symmetry in Quantum Sakurai

### Quantum Mechanics Solution

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concepts. Modern Quantum

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two fold-degeneracy v.r.c.

eigenvalue  $\sim a$  of operator  $A$ . (2)

The rotation matrix (c.f, (3.2.44)]

acting on a two-component spinor

can be peciee ts gehtt 1a ga/21'S2

$\cos y > t0.0$ . sine 2 for cociwige,

cotaiqa ote xcaxis through  $-s/2$ , we

have  $6 = -1/2$ , hence  $\exp[-13. 42/2]$

$= Fa(Itio.)$ . Sakurai - Modern

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Modern Quantum Mechanics,  
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Edition. 1. A simple harmonic  
oscillator (in one dimension) is  
subjected to a perturbation  $\lambda H_1 =$   
 $b x$  where  $b$  is a real constant. a.

Calculate the energy shift of the  
ground state to lowest

nonvanishing order. b. Solutions -

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(note that I'm missing a factor of  $\frac{1}{2}$

in part c:  $x^2 + y^2 = \frac{1}{2}((x+y)^2 + (x-y)^2$

— Thanks Alireza!) Solution: Sakurai

5.7. Solution: Sakurai 5.9 (note in

part (a) that my limits of integration

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on the  $\theta$  integrals run from 0 to  $2\pi$ , but the upper limit should actually just be  $\pi$ . Ultimately this is inconsequential as the integral simplifies to 0 regardless, so the solution still appears to be correct. Sakurai & Napolitano: Quantum Mechanics – Ben Levy 8.06-Modern Quantum Mechanics 2e Solutions-Sakurai.pdf. Date post: 26-Oct-2015: Category: Documents: View: 325 times: Download: 8 times: Download for free Report this document. Share this document with a friend. Description: 8.06-Modern Quantum Mechanics 2e Solutions-Sakurai Transcript: 8.06-Modern Quantum Mechanics 2e Solutions-Sakurai.pdf ... Solution manual for modern quantum mechanics 2nd edition by j j sakurai and jim j napolitano Link

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