#### Homework Set #15 - Solutions

 This problem is essentially Membacher, Chapter 18, Problem 4 for Sakurai, Chapter 5, Problem IJ. Consider a one-dimensional harmonic oscillator perturbed by a constant force.

$$H = \frac{p^2}{2m} + \frac{1}{2}m\omega^2x^2 - Fx$$

a) Show that the first order perturbation in the energy levels vanishes

Pringeriors, 54121

Since we will need to find the second order perturbation in part b), let us consider the general matrix element

Williamson 2000s.

$$V_{min} := -F(me^{(m)})x(m^{(m)})$$

The operator x is given in terms of sreation and annihilation operators by  $x = \sqrt{h/(2m\omega)(a^2 + a)}$ . Thus

$$V_{mn} = -F \sqrt{\frac{\hbar}{2m\omega}} [m^{(n)}](\alpha^4 + a)(n^{(n)})$$
  
=  $-F \sqrt{\frac{\hbar}{2m\omega}} [\sqrt{n+1}\delta_{m,n+1} + \sqrt{n}\delta_{p,n-1}]$ 

This indicates that the x operator changes the oscillator number by  $\pm 1$ . In particular,  $V_{nn} = 0$ , which demonstrates that the first order energy perturbation vanishes.

6) Now calculate the eigenenergies E<sub>n</sub> up to second order in the perturbation. Using the matrix element calculated above, are find:

$$E_n^{(2)} = \sum_{k,l,n} \frac{|V_{k,n}|^2}{E_n^{(0)} - E_k^{(0)}} = \frac{|V_{lock,n}|^2}{E_n^{(0)} - E_{n+1}^{(0)}} + \frac{|V_{lock,n}|^2}{E_n^{(0)} - E_{n-1}^{(0)}}$$

$$= F^0 \frac{h}{2m\omega} \left[ \frac{n+1}{-h\omega} + \frac{n}{h\omega} \right] - \frac{F^2}{2m\omega^2}$$

Combined with the peroth order energy, this gives

$$E_n = (n + \frac{1}{2})h_{\omega} - \frac{F^2}{2m_{\omega}^2}$$

c) Show that the second-order perturbation result gives the exact eigenenergies (which may be obtained by completing the square in Al). Explain why this happens.

# **Sakurai Solutions Chapter 4**

Yoshiyuki Kikuchi

#### **Sakurai Solutions Chapter 4:**

Princeton Problems in Physics with Solutions Nathan Newbury, Mark Newman, 2015-03-25 Aimed at helping the physics student to develop a solid grasp of basic graduate level material this book presents worked solutions to a wide range of informative problems. These problems have been culled from the preliminary and general examinations created by the physics department at Princeton University for its graduate program. The authors all students who have successfully completed the examinations selected these problems on the basis of usefulness interest and originality and have provided highly detailed solutions to each one Their book will be a valuable resource not only to other students but to college physics teachers as well. The first four chapters pose problems in the areas of mechanics electricity and magnetism quantum mechanics and thermodynamics and statistical mechanics thereby serving as a review of material typically covered in undergraduate courses Later chapters deal with material new to most first year graduate students challenging them on such topics as condensed matter relativity and astrophysics nuclear physics elementary particles and atomic and general physics

Problems in the Theory of Point Explosion in Gases Viktor Pavlovich Korobeĭnikov,1976 **Solutions Manual.** Perspectives on Structure and Mechanism in Organic Chemistry Felix A. Carroll, 1997 Includes solutions to all **High-Velocity Impact Phenomena** Ray Kinslow, 2012-12-02 High Velocity Impact Phenomena covers a wide problems range of pertinent topics dealing with impact phenomena The book discusses hypervelocity accelerators stress wave propagation in solids and the theory of impact The text also describes the application of the theory of impact on thin targets and shields and correlation with experiment the numerical evaluation of hypervelocity impact phenomena and analytical studies of impact generated shock propagation The equation of state of solids from shock wave studies metallurgical observations and energy partitioning and engineering considerations in hypervelocity impact are also encompassed Design engineers will find the book invaluable **Linear and Nonlinear Waves** G. B. Whitham, 2011-10-18 Now in an accessible paperback edition this classic work is just as relevant as when it first appeared in 1974 due to the increased use of nonlinear waves It covers the behavior of waves in two parts with the first part addressing hyperbolic waves and the second addressing dispersive waves The mathematical principles are presented along with examples of specific cases in communications and specific physical fields including flood waves in rivers waves in glaciers traffic flow sonic booms blast waves and ocean waves The Physics of Alfvén Waves Neil F. Cramer, 2011-02-10 Low frequency wave modes of magnetized from storms inhomogeneous plasmas have been subject to intense study in the last decade because they play important roles in the transport of energy in the plasmas The Alfv n wave heating scheme has been investigated as a supplementary heating scheme for fusion plasma devices and it has been invoked as a model of the heating of the solar and stellar coronae This book covers the latest research into the properties and applications of low frequency wave modes in magnetized plasmas the Alfv n waves and magneto acoustic waves in the context of laboratory space and astrophysical plasmas In particular non ideal

effects on the dispersion relation and absorption properties of linear and non linear waves are included such as ion cyclotron effects friction between the ionized plasma and a background gas of neutral atoms and the interaction of the plasma with dust particles The book also surveys the theory of Alfv n and magnetoacoustic waves in inhomogeneous plasmas as occur in realistic laboratory space and astrophysical plasmas with resulting localized wave modes such as surface waves Waves are considered under a variety of plasma conditions ranging from cold cosmic plasmas to hot laboratory and solar plasmas to the relativistic plasmas around pulsars Water and Biomolecules Kunihiro Kuwajima, Yuji Goto, Fumio Hirata, Masahide Terazima, Mikio Kataoka, 2009-03-18 Life is produced by the interplay of water and biomolecules This book deals with the physicochemical aspects of such life phenomena produced by water and biomolecules and addresses topics including Protein Dynamics and Functions Protein and DNA Folding and Protein Amyloidosis All sections have been written by internationally recognized front line researchers The idea for this book was born at the 5th International Symposium Water and Biomolecules held in Nara city Japan in 2008 The Great Gap Merike Blofield, 2015-08-21 The relationship between socioeconomic inequality and democratic politics has been one of the central questions in the social sciences from Aristotle on Recent waves of democratization combined with deepened global inequalities have made understanding this relationship ever more crucial In The Great Gap Merike Blofield seeks to contribute to this understanding by analyzing inequality and politics in the region with the highest socioeconomic inequalities in the world Latin America The chapters written by prominent scholars in their fields address the socioeconomic context and inequality of opportunities elite culture public opinion and media framing capital mobility campaign financing representation and gender equality policies and taxation and social policies Aside from the editor the contributors are Pablo Alegre Maur cio Bugarin Daniela Campello Anna Crespo Francisco H G Ferreira Fernando Filqueira Liesl Haas Sallie Hughes Juan Pablo Luna James E Mahon Jr Juliana Mart nez Franzoni Adriana Cuoco Portugal Paola Prado Elisa P Reis Luis Reygadas Sergio Naruhiko Sakurai and Koen Voorend

Anglo-American Connections in Japanese Chemistry Yoshiyuki Kikuchi,2013-12-18 Anglo Japanese and American Japanese connections in chemistry had a major impact on the institutionalization of scientific and technological higher education in Japan from the late nineteenth century and onwards They helped define the structure of Japanese scientific pedagogical and research system that lasted well into the post World World II period of massive technological development when it became one of the biggest providers of chemists and chemical engineers in the world next to Europe and the United States In telling this story Anglo American Connections in Japanese Chemistry explores various sites of science education such as teaching laboratories and classrooms where British and American teachers mingled with Japanese students to shed new light on the lab as a site of global human encounter and intricate social relations that shaped scientific practice An Interpretive Introduction to Quantum Field Theory Paul Teller, 2020-07-21 Quantum mechanics is a subject that has captured the imagination of a surprisingly broad range of thinkers including many philosophers of science Quantum field theory

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Modern Gas-Based Temperature and Pressure Measurements Franco Pavese, Gianfranco Molinar Min Beciet, 2013-06-29 Since the beginning of the preparation of this volume we have been convinced that temperature and pressure measurements should not be separated particularly in different applications at low temperatures This belief has made us deeply conscious of the fact that the advanced applications and modern experimental methods of investigation in science and technology need the combination of various professional experiences and approaches Although the book is divided into two parts Part I by F Pavese and Part II by G F Molinar we have tried to correlate low temperature and low pressure measurements as much as possible We hope that our readers will find this book which contains a large number of experimental and reference data useful in their effort to solve measurement problems We are pleased to acknowledge our debt to several persons and wish to express our gratitude to them for their valuable cooperation and help to our research group colleagues at the Istituto di Metrologia G Colonnetti IMGC CNR without whom the knowledge and the experience we built up during many years could not have been acquired to G T McConville M Durieux and K Grohmann for revisions of and various suggestions for Part I to V E Bean and C R Tilford of NIST and G T McConville for revisions of and various suggestions for Part II and to I Prinetti of IMGC for many valuable suggestions and careful textual revisions The Finite **Element Method for Solid and Structural Mechanics** O. C. Zienkiewicz, R. L. Taylor, 2013-11-08 The Finite Element Method for Solid and Structural Mechanics is the key text and reference for engineers researchers and senior students dealing with the analysis and modeling of structures from large civil engineering projects such as dams to aircraft structures and small engineered components This edition brings a thorough update and rearrangement of the book s content including new chapters on Material constitution using representative volume elements Differential geometry and calculus on manifolds Background mathematics and linear shell theory Focusing on the core knowledge mathematical and analytical tools needed for successful structural analysis and modeling The Finite Element Method for Solid and Structural Mechanics is the

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**Radiation Dosimetry Phosphors** Sanjay J. Dhoble, Vibha Chopra, Vinit Nayar, George Kitis, Dirk Poelman, Hendrik C. Swart, 2022-05-26 Radiation Dosimetry Phosphors provides an overview of the synthesis properties and applications of materials used for radiation dosimetry and reviews the most appropriate phosphor materials for each radiation dosimetry

technique The book describes the available phosphors used commercially for their applications in the medical field for dose measurements Although radiation dosimetry phosphors are commercially available continuous efforts have been made by the worldwide research community to develop new materials or improve already existing materials used in different areas with low or high levels of radiation Moreover researchers are still working on developing dosimetric phosphors for OSL ML LL and RPL dosimetry This book provides an overall view of the phosphors available low cost synthesis methods mechanisms involved emerging trends and new challenges for the development of emerging materials for radiation dosimetry It is suitable for those working in academia and R D laboratories in the discipline of materials science and engineering along with practitioners working in radiation and dosimetry Provides the fundamental concepts historical context and review of current phosphors available for radiation dosimetry Reviews low cost material methods to synthesize and characterize rare earth doped inorganic phosphors for different kinds of radiation dosimetry techniques Discusses key barriers and potential solutions for enabling commercial realization phosphors for radiation dosimetry applications **Network and Traffic** Engineering in Emerging Distributed Computing Applications Abawajy, Jemal H., Pathan, Mukaddim, Rahman, Mustafizur, Pathan, Al-Sakib Khan, Deris, Mustafa Mat, 2012-07-31 This book focuses on network management and traffic engineering for Internet and distributed computing technologies as well as present emerging technology trends and advanced platforms Provided by publisher Controlling the Morphology of Polymers Geoffrey R. Mitchell, Ana Tojeira, 2016-09-06 This book focuses on controlling morphology of different scales for polymers The authors explain the need for successful control of morphology to yield target macroscopic physical properties in the application of polymers to diverse areas such as engineering materials nanodielectrics and photonic crystals The book combines specialized chapters with an introduction to the morphology of polymers and the range of experimental techniques available to evaluate it

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