

Chapter 4 Problems and Solutions  
J.J. Sakurai and Jim Napolitano  
Modern Quantum Mechanics, 2<sup>nd</sup> edition  
(Pearson, 2011)

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((4-1))

4.1 Calculate the *three lowest energy levels*, together with their degeneracies, for the following systems (assume equal-mass *distinguishable* particles).

- (a) Three noninteracting spin  $\frac{1}{2}$  particles in a box of length  $L$ .
- (b) Four noninteracting spin  $\frac{1}{2}$  particles in a box of length  $L$ .

((Solution))

The energy is given by

$$E(n_x, n_y, n_z) = E_0(n_x^2 + n_y^2 + n_z^2)$$

where  $E_0 = \frac{\hbar^2}{2m} \left(\frac{\pi}{L}\right)^2$ , and  $n_x, n_y, n_z$  are positive integers.

We consider the Pauli principle.

# Sakurai Solutions Chapter 4

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## **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 Korobeinikov, 1976 *Solutions Manual, Perspectives on Structure and Mechanism in Organic Chemistry* Felix A. Carroll, 1997 Includes solutions to all problems

**The Physics of Alfvén Waves** Neil F. Cramer, 2011-02-10 Low frequency wave modes of magnetized 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 Alfvén 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 Alfvén waves and magnetoacoustic 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 Alfvén 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

**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 War 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 [Radiopharmaceuticals](#) Lawrence E. Williams, Ph.D.,2016-04-19 Nanoengineering energized by the desire to find specific targeting agents is leading to dramatic acceleration in novel drug design However in this flurry of activity some issues may be overlooked This is especially true in the area of determining dosage and evaluating the effects of multiple agents designed to target more than one site of met **Structure of a Strong Shock in a Monatomic Gas** Peter Daniel Lohn,1969 **Implicit Solvation Models for Air-water Interfaces and Aqueous and Nonaqueous Solution** Casey Patrick Kelly,2007 **Problems of Point Blast Theory** V.P. Korobeinikov,1991-06-04 *Problems of Point Blast Theory* covers all the main topics of modern theory with the exception of applications to nova and supernova outbursts All the presently known theoretical results are given and problems which are still to be resolved are indicated A special feature of the book is the sophisticated mathematical approach Of interest to specialists and graduate students working in hydrodynamics explosion theory plasma physics mathematical physics and applied mathematics **High-velocity Impact Phenomena** A. J. Cable,1970 **Kyōto Teikoku Daigaku Kōka Daigaku kiyō** Kyōto Daigaku. Kōgakubu,1982 **Linear and Nonlinear Waves** G. B. Whitham,1999-07 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 from storms [Papers Presented at the ... Meeting](#) American Chemical Society. Division of Polymer Chemistry,1995 **Comprehensive Rock Engineering: Analysis and design methods** John A. Hudson,1993 *Innovative Numerical Analysis for the Engineering Sciences* Richard Paul Shaw,1980 [Japanese Journal of Physics](#) ,1929 [Collection of Papers Contributed on the Occasion of the Celebration of Professor J. Sakurai's Jubilee](#) Jōji Sakurai,1908 *Whitaker's Cumulative Book List* ,1985 **Intra-science Chemistry Reports** ,1970 **The Chemistry and Biochemistry of Steroids** Leland J. Chinn,1969

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