

Solved Problems on Quantum Mechanics in One Dimension

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Fall 1999; revised 2011 by Malcolm McMillan

Given here are solutions to 15 problems on Quantum Mechanics in one dimension.

The solutions were used as a learning-tool for students in the introductory undergraduate course *Physics 200 Relativity and Quanta* given by Malcolm McMillan at UBC during the 1998 and 1999 Winter Sessions. The solutions were prepared in collaboration with Charles Asman and Adam Monahan who were graduate students in the Department of Physics at the time.

The problems are from Chapter 5 *Quantum Mechanics in One Dimension* of the course text *Modern Physics* by Raymond A. Serway, Clement J. Moses and Curt A. Moyer, Saunders College Publishing, 2nd ed., (1997).

Planck's Constant and the Speed of Light.

When solving numerical problems in Quantum Mechanics it is useful to note that the product of Planck's constant

$$h = 6.6261 \times 10^{-34} \text{ J s} \quad (1)$$

and the speed of light

$$c = 2.9979 \times 10^8 \text{ m s}^{-1} \quad (2)$$

is

$$hc = 1239.8 \text{ eV nm} = 1239.8 \text{ keV pm} = 1239.8 \text{ MeV fm} \quad (3)$$

where

$$1 \text{ eV} = 1.6022 \times 10^{-19} \text{ J} \quad (4)$$

Also,

$$hc = 197.32 \text{ eV nm} = 197.32 \text{ keV pm} = 197.32 \text{ MeV fm} \quad (5)$$

where $\hbar = h/2\pi$.

Wave Function for a Free Particle

Problem 5.3, page 224

A free electron has wave function

$$\Psi(x, t) = \sin(kx - \omega t) \quad (6)$$

- Determine the electron's de Broglie wavelength, momentum, kinetic energy and speed when $k = 50 \text{ nm}^{-1}$.
- Determine the electron's de Broglie wavelength, momentum, total energy, kinetic energy and speed when $k = 50 \text{ pm}^{-1}$.

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Emilio d'Emilio, Luigi E. Picasso



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Problems in Quantum Mechanics Emilio d'Emilio, Luigi E. Picasso, 2012-02-28 242 solved problems of several degrees of difficulty in nonrelativistic Quantum Mechanics ranging from the themes of the crisis of classical physics through the achievements in the framework of modern atomic physics down to the still alive more intriguing aspects connected e.g. with the EPR paradox the Aharonov Bohm effect quantum teleportation

Statistical Physics: Statics, Dynamics And Renormalization Leo P Kadanoff, 2000-05-05 The material presented in this invaluable textbook has been tested in two courses One of these is a graduate level survey of statistical physics the other a rather personal perspective on critical behavior Thus this book defines a progression starting at the book learning part of graduate education and ending in the midst of topics at the research level To supplement the research level side the book includes some research papers Several of these are classics in the field including a suite of six works on self organized criticality and complexity a pair on diffusion limited aggregation some papers on correlations near critical points a few of the basic sources on the development of the real space renormalization group and several papers on magnetic behavior in a plain geometry In addition the author has included a few of his own papers

Engineering Physics - Part B Thakur Publication, 2021-03-03 Buy Solved Series of Engineering Physics Part B E Book for B Tech I II Semester Students Common to All of APJ Abdul Kalam Technological University KTU Kerala

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sciences specifically chemical civil biochemical electrical and mechanical engineering as well as physics chemistry and biology Mathematical Physics in One Dimension Elliott H. Lieb, Daniel C. Mattis, 2013-09-17 Mathematical Physics in One Dimension Exactly Soluble Models of Interacting Particles covers problems of mathematical physics with one dimensional analogs The book discusses classical statistical mechanics and phase transitions the disordered chain of harmonic oscillators and electron energy bands in ordered and disordered crystals The text also describes the many fermion problem the theory of the interacting boson gas the theory of the antiferromagnetic linear chains and the time dependent phenomena of many body systems i e classical or quantum mechanical dynamics Physicists and mathematicians will find the book invaluable

Many-body Problem, The: An Encyclopedia Of Exactly Solved Models In One Dimension (3rd Printing With Revisions And Corrections) Daniel C Mattis, 1993-03-15 This book differs from its predecessor Lieb Mattis Mathematical Physics in One Dimension in a number of important ways Classic discoveries which once had to be omitted owing to lack of space such as the seminal paper by Fermi Pasta and Ulam on lack of ergodicity of the linear chain or Bethe's original paper on the Bethe ansatz can now be incorporated Many applications which did not even exist in 1966 some of which were originally spawned by the publication of Lieb Mattis are newly included Among these this new book contains critical surveys of a number of important developments the exact solution of the Hubbard model the concept of spinons the Haldane gap in magnetic spin one chains bosonization and fermionization solitons and the approach to thermodynamic equilibrium quantum statistical mechanics localization of normal modes and eigenstates in disordered chains and a number of other contemporary concerns *American Journal of Physics*, 2001 *Physics Briefs*, 1991 Science Abstracts, 1927

Quasi-Exactly Solvable Models in Quantum Mechanics A.G Ushveridze, 2017-07-12 Exactly solvable models that is models with explicitly and completely diagonalizable Hamiltonians are too few in number and insufficiently diverse to meet the requirements of modern quantum physics Quasi exactly solvable QES models whose Hamiltonians admit an explicit diagonalization only for some limited segments of the spectrum provide a practical way forward Although QES models are a recent discovery the results are already numerous Collecting the results of QES models in a unified and accessible form Quasi Exactly Solvable Models in Quantum Mechanics provides an invaluable resource for physicists using quantum mechanics and applied mathematicians dealing with linear differential equations By generalizing from one dimensional QES models the expert author constructs the general theory of QES problems in quantum mechanics He describes the connections between QES models and completely integrable theories of magnetic chains determines the spectra of QES Schrödinger equations using the Bethe ansatz solution of the Gaudin model discusses hidden symmetry properties of QES Hamiltonians and explains various Lie algebraic and analytic approaches to the problem of quasi exact solubility in quantum mechanics Because the applications of QES models are very wide such as for investigating non perturbative phenomena or as a good approximation to exactly non solvable problems researchers in quantum mechanics related fields cannot afford to be unaware of the

possibilities of QES models Japanese Journal of Physics ,1929 **High Energy Physics Index** ,1992 **The Principles of Quantum Mechanics** Paul Adrien Maurice Dirac,1930 **Reviews in Partial Differential Equations, 1980-86, as Printed in Mathematical Reviews** ,1988 *Physics in One Dimension* ,1981 **The Graduate School, University of Kentucky Bulletin** University of Kentucky,1970 *Bulletin* University of Kentucky,1965 **Mathematical Reviews** ,2007 **General Catalog** Kentucky. University,University of Kentucky,1956 *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society* IEEE Engineering in Medicine and Biology Society. Annual Conference,1988

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