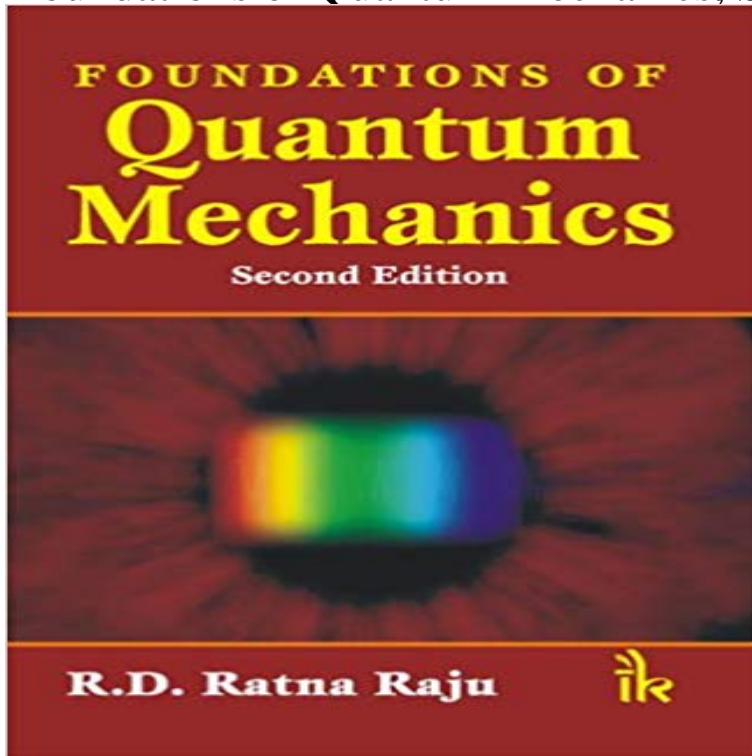


## Foundations of Quantum Mechanics, Second Edition



I think it makes an excellent textbook on quantum mechanics for graduate students.

- Prof. K.T. Hecht, Department of Physics, University of Michigan, USA

Foundations of Quantum Mechanics is written in simple and elegant style. Mathematical derivations are presented in complete detail with a lucid discussion of their physical significance. Symmetries inherent in quantum systems are brought out in a lucid way. Salient Features: The first chapter provides a comprehensive presentation of the historical aspects of the development. A brief review of classical mechanics is provided in the second chapter with a view to draw analogies between quantum and classical approaches wherever appropriate. The third chapter introduces the Dirac  $\delta$ -function and establishes its connection to Fourier transforms. A formal conceptual basis for the understanding of the eigenvalue problems, properties of state and eigenvectors and their closure and completeness conditions-is laid in the fourth chapter. Postulatory basis of quantum mechanics is discussed in Chapter 5 and one-dimensional problems in Chapters 6 and 8. A brief account of the WKB approximation is provided in chapter 7. The central force problems are discussed with special emphasis on the hydrogen atom in Chapter 9. The isotropic oscillator and its symmetries are discussed in Chapter 10. Chapter 14 deals extensively with the theory of angular momentum, the spherical tensor operators and Wigner-Eckart theorem. The D-functions and their connections to spherical harmonics, integrals involving D-functions, the 3-j, 6-j and 9-j symbols and their symmetry properties are also discussed. Chapters 15, 16 and 17 are concerned with unitary transformations, Schrodinger, Heisenberg and interaction pictures, infinitesimal transformations and invariance properties of physical systems

and symmetries of identical particles. Relativistic quantum mechanics is presented in Chapter 18. Zitterbewegung, bilinear covariants, the one-electron problem, charge conjugation and whole theory are discussed in complete detail. Contents: Quantum Ideas/A Brief Review of Classical Mechanics/Dirac Delta Function/Linear Complex Vector Spaces / Postulatory Basis of Quantum Mechanics/One-dimensional Problems / The WKB Approximation/Linear harmonic Oscillator in the Creation and Annihilation Operator Formalism/Angular Momentum and the Central Force Problem/The Isotropic Oscillator/Quantum Approximation Methods/Motion of a Charged Particle in a Uniform Magnetic Field/Scattering Theory / Theory of Angular Momentum / Unitary Transformations in Quantum Mechanics: The Schrodinger, Heisenberg and Interaction Pictures/Infinitesimal Transformations and Invariance Properties of Physical Systems / Identical Particles / Relativistic Quantum Mechanics/Index.

Agradable ruta realizada junto al Bilbao Alpino que parte desde la localidad alavesa de Guinea, en la vertiente Sur de la sierra de Arkamo y que discurre por las cimas de Olvedo, Pelistornes y Cantoblanco.

Desde Guinea el camino es muy evidente, ya que las dos primeras cimas están muy cerca y separadas por un pequeño collado. Su subida es corta y casi directa y está señalizada justo a la salida del pueblo.

Al Olvedo se llega relativamente rápido. A pesar de que las nubes a veces nos impiden apreciar las vistas, el paisaje se intuye precioso.

2017-01-22\_10-36-17

Para pasar del Olvedo al Pelistornes tan sólo tenemos que cruzar el collado y llegaremos en apenas 10 minutos a nuestra segunda cima del día.

2017-01-22\_10-53-02

Una vez coronadas las cimas anteriores hay que continuar la travesía en dirección a la al Cantoblanco, que se asciende tras un durillo cortafuegos.

20170122\_123405

Desde la cima tenemos justo en frente el Montemayor, máxima altura de la vecina sierra de Arkamo.2017-01-22\_13-00-09

Finalmente, iniciamos el descenso hacia la curiosa localidad de Salinas de Añana...

20170122\_142807

...donde podremos completar la ruta con una visita a las propias Salinas.

20170122\_142812

Una ruta de unos 15 kilómetros sin dificultades reseñables. Únicamente se hace necesaria logística de vehículos. De no tener esta facilidad entonces es mejor realizar únicamente la subida al Olvedo y Pelistornes.

Tu voto:

Publicado en Araba, Rutas fáciles | Deja un comentario

Los Retos de 2017

Publicado el 01/24/2017 por 12meses12montes

Bueno, un nuevo año que ha pasado y uno nuevo que acaba de comenzar. 2016 fue un año muy intenso, si bien los retos que nos marcamos en un principio sólo se vieron cumplidos en una tercera parte. No fue un buen año para ellos, ésta vez la alineación de planetas se generó en pocas ocasiones.

Sin embargo, no decaemos. Cogemos el testigo y no vamos a desistir en su intento, por lo que los retos que no conseguimos cumplir en 2016 serán los que tratemos de realizar en 2017, más algunos otros, a ver qué os parecen. Seguir leyendo

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