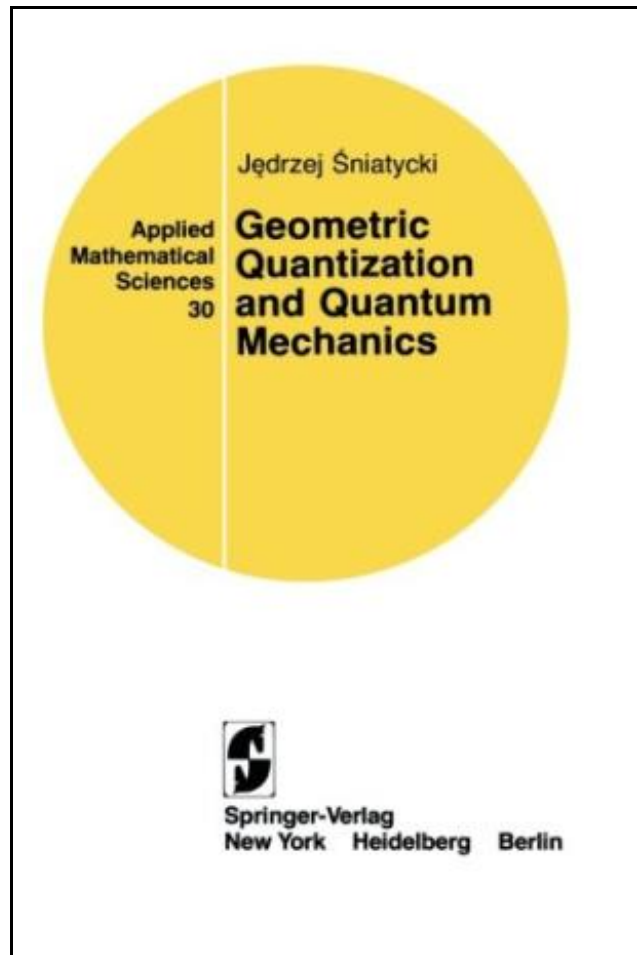


Geometric Quantization and Quantum Mechanics



Filesize: 6 MB

Reviews

This publication is definitely not simple to begin on studying but quite fun to see. It really is full of knowledge and wisdom I am just effortlessly can get a satisfaction of studying a created pdf.
(Alfreda Bradtke)

GEOMETRIC QUANTIZATION AND QUANTUM MECHANICS



To save **Geometric Quantization and Quantum Mechanics** eBook, make sure you access the web link beneath and download the ebook or gain access to additional information that are relevant to GEOMETRIC QUANTIZATION AND QUANTUM MECHANICS ebook.

Book Condition: New. Publisher/Verlag: Springer, Berlin | This book contains a revised and expanded version of the lecture notes of two seminar series given during the academic year 1976/77 at the Department of Mathematics and Statistics of the University of Calgary, and in the summer of 1978 at the Institute of Theoretical Physics of the Technical University Clausthal. The aim of the seminars was to present geometric quantization from the point of view of its applications to quantum mechanics, and to introduce the quantum dynamics of various physical systems as the result of the geometric quantization of the classical dynamics of these systems. The group representation aspects of geometric quantization as well as proofs of the existence and the uniqueness of the introduced structures can be found in the expository papers of Blattner, Kostant, Sternberg and Wolf, and also in the references quoted in these papers. The books of Souriau (1970) and Simms and Woodhouse (1976) present the theory of geometric quantization and its relationship to quantum mechanics. The purpose of the present book is to complement the preceding ones by including new developments of the theory and emphasizing the computations leading to results in quantum mechanics. | 1. Introduction.- 1.1 Background.- 1.2 Hamiltonian dynamics.- 1.3 Prequantization.- 1.4 Representation space.- 1.5 Blattner-Kostant-Sternberg kernels.- 1.6 Quantization.- 1.7 Schrödinger representation.- 1.8 Other representations.- 1.9 Time-dependent Schrödinger equation.- 1.10 Relativistic dynamics in an electromagnetic field.- 1.11 Pauli representation.- 2. Hamiltonian Dynamics.- 2.1 Poisson algebra.- 2.2 Local expressions.- 2.3 Relativistic charged particle.- 2.4 Non-relativistic dynamics.- 3. Prequantization.- 3.1 Connections in line bundles.- 3.2 Prequantization line bundle.- 3.3 Prequantization map.- 4. Representation Space.- 4.1 Polarization.- 4.2 The bundle $\mathbb{C}P^1$ - 4.3 Square integrable wave functions.- 4.4 Bohr-Sommerfeld conditions.- 4.5 Distributional wave functions.- 5. Blattner-Kostant-Sternberg Kernels.- 5.1 Transverse polarizations.- 5.2 Strongly admissible pairs...



Read Geometric Quantization and Quantum Mechanics Online



Download PDF Geometric Quantization and Quantum Mechanics



Download ePub Geometric Quantization and Quantum Mechanics

Other Kindle Books



[PDF] DK Readers Beastly Tales Level 3 Reading Alone

Click the hyperlink listed below to download "DK Readers Beastly Tales Level 3 Reading Alone" PDF file.

[Read eBook »](#)



[PDF] McGraw-Hill Reading Phonics And Phonemic Awareness Practice Book, Grade 3 (2001 Copyright)

Click the hyperlink listed below to download "McGraw-Hill Reading Phonics And Phonemic Awareness Practice Book, Grade 3 (2001 Copyright)" PDF file.

[Read eBook »](#)



[PDF] Dark Hollow

Click the hyperlink listed below to download "Dark Hollow" PDF file.

[Read eBook »](#)



[PDF] Wigwam Evenings

Click the hyperlink listed below to download "Wigwam Evenings" PDF file.

[Read eBook »](#)



[PDF] Plentyofpickles.com

Click the hyperlink listed below to download "Plentyofpickles.com" PDF file.

[Read eBook »](#)



[PDF] Daycare Seen Through a Teacher s Eyes: A Guide for Teachers and Parents

Click the hyperlink listed below to download "Daycare Seen Through a Teacher s Eyes: A Guide for Teachers and Parents" PDF file.

[Read eBook »](#)

**[PDF] Read Write Inc. Phonics: Pink Set 3 Non-Fiction 4 Light and Shadow**

Click the link below to download "Read Write Inc. Phonics: Pink Set 3 Non-Fiction 4 Light and Shadow" PDF file.

[Save Document »](#)

**[PDF] Read Write Inc. Phonics: Blue Set 6 Storybook 5 Our House**

Click the link below to download "Read Write Inc. Phonics: Blue Set 6 Storybook 5 Our House" PDF file.

[Save Document »](#)

**[PDF] DK Readers Invaders From Outer Space Level 3 Reading Alone**

Click the link below to download "DK Readers Invaders From Outer Space Level 3 Reading Alone" PDF file.

[Save Document »](#)

**[PDF] Fox on the Job: Level 3**

Click the link below to download "Fox on the Job: Level 3" PDF file.

[Save Document »](#)

**[PDF] DK Readers Animal Hospital Level 2 Beginning to Read Alone**

Click the link below to download "DK Readers Animal Hospital Level 2 Beginning to Read Alone" PDF file.

[Save Document »](#)

**[PDF] Read Write Inc. Phonics: Grey Set 7 Storybook 1 Rex to the Rescue**

Click the link below to download "Read Write Inc. Phonics: Grey Set 7 Storybook 1 Rex to the Rescue" PDF file.

[Save Document »](#)