

Texts and
Monographs
in Physics

Robert D. Richtmyer

Principles of Advanced Mathematical Physics

Volume I



Springer-Verlag
New York Heidelberg Berlin

Principles Of Advanced Mathematical Physics Principles Of Advanced Mathematical Physics

Robert Davis Richtmyer



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entwickeln und vertiefen die vier Bände dieses Lehrbuchs das Gebilde der nichtrelativistischen Quantenmechanik weshalb sie auch bestens als Nachschlagewerk geeignet sind Der zweite Band behandelt den quantenmechanischen Drehimpuls sowie Symmetrien in der nichtrelativistischen Quantenmechanik Anschließend wird das wichtige Anwendungsgebiet der dreidimensionalen Probleme sowohl auf algebraischem Wege als auch mit analytischen Methoden untersucht Es schließen sich Kapitel zu Teilchen in elektromagnetischen Feldern und zum großen Themenkomplex identischer Teilchen an welcher nahtlos zur Feldquantisierung weitergeführt Besonderheiten Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt Zahlreiche mathematische Einschübe erläutern allgemeine mathematische Zusammenhänge Besondere Highlights des Buches sind der algebraische Beweis zur Ganzzahligkeit des Bahndrehimpulses die ausführliche Untersuchung des Zusammenhangs zwischen Clifford Algebren und Spinoren sowie ein Linearisierungsansatz für die Schrödinger Gleichung Die Mathematik der Eichtheorien bietet eine zusammenhängende Formulierung sehr vieler topologischer Phänomene wie magnetischer Monopole des Aharonov Bohm Effekts oder von Landau Niveaus Inhalt 1 Theorie des Drehimpulses I 2 Symmetrien in der Quantenmechanik I 3 Dreidimensionale Probleme 4 Teilchen in elektromagnetischen Feldern 5 Theorie des Drehimpulses II 6 Identische Teilchen und nichtrelativistische Quantenfeldtheorie Zielgruppe Das Buch richtet sich sowohl an Bachelor als auch an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und Bezügen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bibliothek einer in der Physik tätigen Person Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik und der Speziellen Relativitätstheorie sowie der Analysis der linearen Algebra und der Funktionentheorie Principles Of

Advanced Mathematical Physics: Vol. I R.D. Richtmyer, Quantenmechanik III Oliver Tennert, 2024-05-16 In einer umfassenden Darstellung entwickeln und vertiefen die vier Bände dieses Lehrbuchs das Gebilde der nichtrelativistischen Quantenmechanik weshalb sie auch bestens als Nachschlagewerk geeignet sind Der dritte Band stellt wichtige Näherungsverfahren für zeitunabhängige Probleme vor und führt anschließend die Behandlung zeitabhängiger Systeme hin zum großen Themengebiet der Streutheorie Besonderheiten Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt Zahlreiche mathematische Einschübe erläutern allgemeine mathematische Zusammenhänge Besondere Highlights des Buches sind die Ableitung emergenter Eichtheorien aus der Born Oppenheimer Näherung heraus die exakte Lösung für das

Wasserstoffmolekül Ion als Zwei Zentren Problem und für das Coulomb Streuproblem sowie die Untersuchung der analytischen Struktur der S Matrix einschließlich der Herleitung wichtiger Dispersionsrelationen Inhalt 1 Näherungsverfahren für gebundene Zustände 2 Zeitabhängige Systeme und Bergung 3 Streutheorie Zielgruppe Das Buch richtet sich sowohl an Bachelor als auch an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und Bezügen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bibliothekar einer in der Physik tätigen Person Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik und der Speziellen Relativitätstheorie sowie der Analysis der linearen Algebra und der Funktionentheorie *Principles Of Advanced Mathematical Physics: Vol. II* R.D. Richtmyer, **Quantenmechanik I** Oliver Tennert, 2024-05-17 In einer umfassenden Darstellung entwickeln und vertiefen die vier Bände dieses Lehrbuchs das Gebäude der nichtrelativistischen Quantenmechanik weshalb sie auch bestens als Nachschlagewerk geeignet sind Der erste Band beginnt mit einer anekdotenreichen und spannenden historischen Überblicksdarstellung die die Hauptprotagonisten der Quantentheorie und wichtige Meilensteine ihres Wirkens vorstellt Im Folgenden wird dann die Formulierung im Hilbert Raum axiomatisch entwickelt und wichtige Grundlagenthemen behandelt die eindimensionalen Probleme der harmonische Oszillator und die WKB Näherung als Bindeglied zur klassischen Physik Besonderheiten Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt Zahlreiche mathematische Einschübe erläutern allgemeine mathematische Zusammenhänge Besondere Highlights des Buches sind die frühe Entwicklung von Propagatormethoden die ausführliche mathematische Behandlung von kohärenten und gequetschten Zuständen des harmonischen Oszillators sowie die gründliche Untersuchung des klassischen Grenzfalles Inhalt 1 Historischer Abriss Der Weg zur Quantenmechanik 2 Der theoretische Formalismus der Quantenmechanik 3 Eindimensionale Probleme 4 Der harmonische Oszillator in der Quantenmechanik 5 Die WKB Näherung und der klassische Grenzfall Zielgruppe Das Buch richtet sich sowohl an Bachelor als auch an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und Bezügen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bibliothekar einer in der Physik tätigen Person Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik und der Speziellen Relativitätstheorie sowie der Analysis der linearen Algebra und der Funktionentheorie *Quantenmechanik IV* Oliver Tennert, 2024-05-17 In einer umfassenden Darstellung entwickeln und vertiefen die vier Bände dieses Lehrbuchs das Gebäude der nichtrelativistischen Quantenmechanik weshalb sie auch bestens als Nachschlagewerk geeignet sind Der vierte Band beginnt mit einem ausführlichen Kapitel zur nichtrelativistischen Quantenelektrodynamik QED traditionell als Quantentheorie der Strahlung bezeichnet und leitet dann über in die relativistische Quantentheorie Eine sorgfältige Behandlung der Möglichkeiten und Grenzen einer relativistischen Quantenmechanik sowie eine gründliche Untersuchung von Symmetrien in der relativistischen Quantentheorie schließen das Lehrbuch ab Besonderheiten Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt Zahlreiche

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Bohmsche Mechanik als Grundlage der Quantenmechanik Detlef Dürr,2011-06-28 In diesem Buch wird erstmalig in deutscher Sprache vorgestellt wie sich aus einer fundamentalen mechanischen Theorie n mlich Bohmscher Mechanik der mathematische Formalismus und die Ph nomene der Quantenmechanik ergeben Dies steht in Analogie zur Idee die makroskopischen Ph nomene aus den mikroskopischen fundamentalen Gesetzen zu erkl ren Dieses Programm wird hier vollst ndig in mathematischer Strenge durchgef hrt wobei die ben tigten Methoden und Grundeinsichten eingef hrt und erkl rt werden Nach ausf hrlicher Darstellung der Grundlagen besch ftigt sich der Autor mit der statistischen Analyse der Bohmschen Mechanik und entwickelt daraus die fundamentalen Konzepte der Quantenmechanik einschlie lich der bisher in dieser Form noch nicht dargestellten Streutheorie Das Buch wirft ein neues Licht auf die Grundlagenprobleme und die Paradoxien der Quantenmechanik und verbindet strengen mathematischen Formalismus mit physikalischer Anschauung

Jacobi Matrices and the Moment Problem Yuriy M. Berezansky,Mykola E. Dudkin,2023-11-29 This monograph presents the solution of the classical moment problem the construction of Jacobi matrices and corresponding polynomials The cases of strongly trigonometric complex and real two dimensional moment problems are discussed and the Jacobi type matrices corresponding to the trigonometric moment problem are shown The Berezansky theory of the expansion in generalized eigenvectors for corresponding set of commuting operators plays the key role in the proof of results The book is recommended for researchers in fields of functional analysis operator theory mathematical physics and engineers who deal with problems of coupled pendulums

Essential Mathematical Methods for Physicists, ISE Hans J. Weber,George B. Arfken,2004 This new adaptation of Arfken and Weber s best selling Mathematical Methods for Physicists fifth edition is the most modern collection of mathematical principles for solving physics problems

Experimentelle Technik der Physik ,1980

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