



NIRMALA PRADASH

M A T H E M A T I C A L
P E R S P E C T I V E S O N
T H E O R E T I C A L P H Y S I C S

A Journey from Black Holes to Superstrings

Imperial College Press

Mathematical Perspectives On Theoretical Physics A Journey From Black Holes To Superstrings

Scott C. Dulebohn



Mathematical Perspectives On Theoretical Physics A Journey From Black Holes To Superstrings:

Mathematical Perspectives on Theoretical Physics Nirmala Prakash, 2003 Readership Upper level undergraduates graduate students lecturers and researchers in theoretical mathematical and quantum physics **Three Plays of Maureen Hunter** Hunter, Maureen, 2003 Book is clean and tight No writing in text Like New **Dark Matter, Neutrinos, and Our Solar System** Nirmala Prakash, 2013 This book describes these issues in terms of links between cosmology particle and nuclear physics as well as between cosmology atmospheric and terrestrial physics It studies the constituents of dark matter classified as hot warm and cold first in terms of their individual structures and second in terms of facilities available to detect these structures Neutrinos are treated as a separate entity The last chapter details the real time stories about the regions that were not explored thus far for lack of advanced technology Their untold stories which span up to 2010 are illustrated here datewise in full The book concludes with the latest news that the Large Hadron Collider team at CERN has finally succeeded in producing 7 trillion electronic Volts of energy by creating head on collisions of protons and more protons in search of God particle **Book Review Index Cumulation** Dana Ferguson, 2005-09 Book Review Index provides quick access to reviews of books periodicals books on tape and electronic media representing a wide range of popular academic and professional interests The up to date coverage wide scope and inclusion of citations for both newly published and older materials make Book Review Index an exceptionally useful reference tool More than 600 publications are indexed including journals and national general interest publications and newspapers Book Review Index is available in a three issue subscription covering the current year or as an annual cumulation covering the past year *Mathematical Reviews*, 2005-06

Gravitation I Oliver Tennert, 2025-04-25 Die zwei Bände dieses Lehrbuchs entwickeln und vertiefen auf umfassende Weise das Gebude der Allgemeinen Relativitätstheorie ART Aufgrund der großen inhaltlichen Breite dienen sie auch hervorragend als Nachschlagewerk Besonderheiten Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt Zahlreiche mathematische Einschübe erläutern allgemeine mathematische Zusammenhänge Besondere Highlights des Buches sind die Erarbeitung der differentialgeometrischen Grundlagen die frühe Diskussion allgemeiner Raumzeit Strukturen wie geodetischer Kongruenzen der Kausalstruktur und der Petrov Klassifizierung von Raumzeiten sowie der Energie Impuls Pseudotensoren eine ausführliche Betrachtung gravito elektromagnetischer Effekte sowie die gründliche Untersuchung des raumartigen Wurmlochs der Kruskal Raumzeit Inhalt 1 Historischer Abriss Eine kurze Geschichte der Allgemeinen Relativitätstheorie 2 Die Grundlegung der Allgemeinen Relativitätstheorie 3 Allgemeine Eigenschaften von Raumzeiten 4 Linearisierte ART und post Newtonsche Näherung 5 Die Schwarzschild Lösung Zielgruppe Das Buch richtet sich an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und Bezügen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bücherregal einer in der Physik tätigen Person Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik der Quantenmechanik und

der Speziellen Relativitätstheorie sowie der Analysis und der linearen Algebra **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 Wasserstoffmolekülion 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 Bergänge 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 Bibliothekregal 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 I Oliver Tennert, 2024-05-17 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 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 harmonischen 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 Bibliothekregal 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

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Buch richtet sich sowohl an Bachelor als auch an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrb ndigen Charakters der breiten Themenvielfalt und Bez gen zu wissenschaftlichen Originalarbeiten allerdings ein Muss f r jedes B cherregal einer in der Physik t tigen Person Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik und der Speziellen Relativit tstheorie sowie der Analysis der linearen Algebra und der Funktionentheorie

CERN Courier European Organization for Nuclear Research,2001 This journal is devoted to the latest research on physics publishing articles on everything from elementary particle behavior to black holes and the history of the universe

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