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This important collection of more than twenty original essays by prominent Kant scholars covers the multiple aspects of Kant's teaching in relation

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to his published works. With the Academy edition's continuing publication of Kant's lectures, the role of his lecturing activity has been drawing more and more deserved attention. Several of Kant's lectures on metaphysics, logic, ethics, anthropology, theology, and pedagogy

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have been translated into English, and important studies have appeared in many languages. But why study the lectures? When they are read in light of Kant's published writings, the lectures offer a new perspective of Kant's philosophical development, clarify points in the published texts,

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consider topics there unexamined, and depict the intellectual background in richer detail. And the lectures are often more accessible to readers than the published works. This book discusses all areas of Kant's lecturing activity. Some essays even analyze in detail the content of Kant's courses and the

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role of textbooks written by key authors such as Baumgarten, helping us understand Kant's thought in its intellectual and historical contexts. Contributors: Huaping Lu-Adler; Henny Blomme ; Robert Clewis; Alix Cohen; Corey Dyck; Faustino Fabbianelli; Norbert Fischer; Courtney Fugate;

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Paul Guyer; Robert Louden; Antonio Moretto; Steve Naragon; Christian Onof; Stephen Palmquist; Riccardo Pozzo; Frederick Rauscher; Dennis Schulting; Oliver Sensen; Susan Shell; Werner Stark; John Zammito; Günter Zöller

This graduate-level primer presents a

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tutorial introduction to and overview of $N = 2$ supergravity theories - with 8 real supercharges and in 4, 5 and 6 dimensions. First, the construction of such theories by superconformal methods is explained in detail, and relevant special geometries are obtained and characterized. Following,

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the relation between the supergravity theories in the various dimensions is discussed. This leads eventually to the concept of very special geometry and quaternionic-Kähler manifolds. This concise text is a valuable resource for graduate students and young researchers wishing to enter the field

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quickly and efficiently.

Lectures On Computation
Perseus Books

This primer develops Conformal Field Theory (CFT) from scratch, whereby CFT is viewed as any conformally-invariant theory that describes a fixed point of a renormalization group flow in

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quantum field theory. The book is divided into four lectures: Lecture 1 addresses the physical foundations of conformal invariance, while Lecture 2 examines the constraints imposed by conformal symmetry on the correlation functions of local operators, presented using the so-called projective null cone

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- a procedure also known as the embedding formalism. In turn, Lecture 3 focuses on the radial quantization and the operator product expansion, while Lecture 4 offers a very brief introduction to the conformal bootstrap. Derived from course-based notes, these lectures are intended as a

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first point of entry to this topic for
Master and PhD students alike.

Including Announcements ...

Reading Kant's Lectures

Philosophical Papers

Lecture Notes on Mathematical
Problems

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Generalized Kinetic Models in Applied
Sciences

This book provides an accessible introduction to the fascinating and topical subject of black holes. It bridges the gap between

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***popular non-mathematical
expositions and advanced
research texts, using simple
undergraduate level
calculations and the most
basic knowledge of
relativity to explain current***

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research. This means the theory can be understood by a wide audience of physicists, including those who are not necessarily interested in learning higher-level mathematical

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techniques. The third edition links more of the current research trends to fundamental aspects of the physics of black holes. Additionally: It provides an accessible introduction to

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the two most useful exact solutions of Einstein's vacuum field equations describing black holes, using only basic tensor calculus
Explores the geometry and physical

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***properties of these
spacetimes through the
motion of particles and
light Explains the use of
different coordinate
systems, maximal
extensions and Penrose***

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discusses the association of the surface area of a black hole with its entropy and shows that, with the introduction of quantum mechanics, black holes cease to be black and

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can radiate. This allows black holes to satisfy the laws of thermodynamics and thus be consistent with the rest of physics. Includes over 100 problems and solutions. This new edition

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introduces a chapter dedicated to a selection of recent results. Existing chapters have been updated and new explanatory material has been added to aid in the understanding of

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the physics. This book is recommended reading for advanced undergraduate students and first-year postgraduates who will find it a useful stepping-stone to the advanced literature.

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The introduction of control theory in quantum mechanics has created a rich, new interdisciplinary scientific field, which is producing novel insight into important theoretical

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questions at the heart of quantum physics. Exploring this emerging subject, Introduction to Quantum Control and Dynamics presents the mathematical concepts and fundamental

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physics behind the analysis and control of quantum dynamics, emphasizing the application of Lie algebra and Lie group theory. After introducing the basics of quantum mechanics, the

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book derives a class of models for quantum control systems from fundamental physics. It examines the controllability and observability of quantum systems and the related

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problem of quantum state determination and measurement. The author also uses Lie group decompositions as tools to analyze dynamics and to design control algorithms.

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In addition, he describes various other control methods and discusses topics in quantum information theory that include entanglement and entanglement dynamics.

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The final chapter covers the implementation of quantum control and dynamics in several fields. Armed with the basics of quantum control and dynamics, readers will invariably use

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***this interdisciplinary
knowledge in their
mathematical, physics, and
engineering work.
In spite of the impressive
predictive power and strong
mathematical structure of***

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quantum mechanics, the theory has always suffered from important conceptual problems. Some of these have never been solved. Motivated by this state of affairs, a number of

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physicists have worked together for over thirty years to develop stochastic electrodynamics, a physical theory aimed at finding a conceptually satisfactory, realistic explanation of

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quantum phenomena. This is the first book to present a comprehensive review of stochastic electrodynamics, from its origins to present-day developments. After a general introduction for the

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non-specialist, a critical discussion is presented of the main results of the theory as well as of the major problems encountered. A chapter on stochastic optics and some

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interesting consequences for local realism and the Bell inequalities is included. In the final chapters the authors propose and develop a new version of the theory that

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***brings it in closer
correspondence with
quantum mechanics and
sheds some light on the
wave aspects of matter and
the linkage with quantum
electrodynamics. Audience:***

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The volume will be of interest to scholars and postgraduate students of theoretical and mathematical physics, foundations and philosophy of physics, and teachers of

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***theoretical physics and
quantum mechanics,
electromagnetic theory, and
statistical physics
(stochastic processes).***
***These lecture notes present
a concise and introductory,***

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***yet as far as possible
coherent, view of the main
formalizations of quantum
mechanics and of quantum
field theories, their
interrelations and their
theoretical foundations.***

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The “standard” formulation of quantum mechanics (involving the Hilbert space of pure states, self-adjoint operators as physical observables, and the probabilistic interpretation

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given by the Born rule) on one hand, and the path integral and functional integral representations of probabilities amplitudes on the other, are the standard tools used in most

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applications of quantum theory in physics and chemistry. Yet, other mathematical representations of quantum mechanics sometimes allow better comprehension and

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justification of quantum theory. This text focuses on two of such representations: the algebraic formulation of quantum mechanics and the “quantum logic”

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approach. Last but not least, some emphasis will also be put on understanding the relation between quantum physics and special relativity through their common

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***roots - causality, locality
and reversibility, as well as
on the relation between
quantum theory,
information theory,
correlations and
measurements, and***

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quantum gravity. Quantum mechanics is probably the most successful physical theory ever proposed and despite huge experimental and technical progresses in over almost a century, it

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has never been seriously challenged by experiments. In addition, quantum information science has become an important and very active field in recent decades, further enriching

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the many facets of quantum physics. Yet, there is a strong revival of the discussions about the principles of quantum mechanics and its seemingly paradoxical

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aspects: sometimes the theory is portrayed as the unchallenged and dominant paradigm of modern physical sciences and technologies while sometimes it is considered

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***a still mysterious and
poorly understood theory,
waiting for a revolution.
This volume, addressing
graduate students and
seasoned researchers alike,
aims to contribute to the***

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***reconciliation of these two
facets of quantum
mechanics.***

***The Quantum Dice
An Introduction to
Stochastic Electrodynamics
Thinking in Complexity***

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***N = 2 Supergravity in D =
4, 5, 6 Dimensions***

Local Examinations

***The Specific Heat of Matter
at Low Temperatures***

*Supercritical fluids which
are neither gas nor liquid,*

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but can be compressed gradually from low to high density, are gaining increasing importance as tunable solvents and reaction media in the chemical process industry.

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By adjusting the pressure, or more strictly the density, the properties of these fluids are customized and manipulated for the particular process at hand, be it a physical transformation, such as

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separation or solvation, or a chemical transformation, such as a reaction or reactive extraction.

Supercritical fluids, however, differ from both gases and liquids in many

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respects. In order to properly understand and describe their properties, it is necessary to know the implications of their nearness to criticality, to be aware of the complex types

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*of phase separation
(including solid phases) that
occur when the components
of the fluid mixture are very
different from each other,
and to develop theories that
can cope with the large*

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differences in molecular size and shape of the supercritical solvent and the solutes that are present. Recent discoveries of new materials and improvements in calorimetric techniques

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have given new impetus to the subject of specific heat. Nevertheless, there is a serious lack of literature on the subject. This invaluable book, which goes some way towards remedying that, is

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concerned mainly with the specific heat of matter at ordinary temperatures. It discusses the principles that underlie the theory of specific heat and considers a number of theoretical

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models in some detail. The subject matter ranges from traditional materials to those recently discovered — heavy fermion compounds, high temperature superconductors, spin

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glasses and so on — and includes a large number of figures, tables and references. The book will be particularly useful for advanced undergraduate and postgraduate students

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*as well as academics and
researchers. Contents: Basic
Concepts and
Definitions Lattice Specific
Heat Electronic Specific
Heat Magnetic Specific
Heat Specific Heat of*

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*Cryogenic Liquids Specific-
Heat*

Anomalies Experimental

Techniques Readership:

*Upper level undergraduates,
graduate students,*

researchers and academics.

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This invaluable book provides a quick introduction to the rudiments of perturbative string theory and a detailed introduction to the more current topic of D-brane

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dynamics. The presentation is very pedagogical, with much of the technical detail streamlined. The rapid but highly coherent introduction to the subject is perhaps what distinguishes this book

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from other string theory or D-brane books. This second edition includes an additional appendix with solutions to the exercises, thus expanding on some of the technical material and

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making the book more appealing for use in lecture courses. The material is based on mini-courses in theoretical high energy physics delivered by the author at various summer

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schools, so its actual level has been appropriately tested.

This course-based monograph introduces the reader to the theory of continuous measurements in

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quantum mechanics and provides some benchmark applications. The approach chosen, quantum trajectory theory, is based on the stochastic Schrödinger and master equations, which

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determine the evolution of the a-posteriori state of a continuously observed quantum system and give the distribution of the measurement output. The present introduction is

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restricted to finite-dimensional quantum systems and diffusive outputs. Two appendices introduce the tools of probability theory and quantum measurement

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theory which are needed for the theoretical developments in the first part of the book. First, the basic equations of quantum trajectory theory are introduced, with all their

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mathematical properties, starting from the existence and uniqueness of their solutions. This makes the text also suitable for other applications of the same stochastic differential

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equations in different fields such as simulations of master equations or dynamical reduction theories. In the next step the equivalence between the stochastic approach and the

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theory of continuous measurements is demonstrated. To conclude the theoretical exposition, the properties of the output of the continuous measurement are analyzed

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in detail. This is a stochastic process with its own distribution, and the reader will learn how to compute physical quantities such as its moments and its spectrum. In particular this

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last concept is introduced with clear and explicit reference to the measurement process. The two-level atom is used as the basic prototype to illustrate the theory in a concrete

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application. Quantum phenomena appearing in the spectrum of the fluorescence light, such as Mollow's triplet structure, squeezing of the fluorescence light, and the

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linewidth narrowing, are presented. Last but not least, the theory of quantum continuous measurements is the natural starting point to develop a feedback control theory in continuous time

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for quantum systems. The two-level atom is again used to introduce and study an example of feedback based on the observed output.

*An Introduction to String
Theory and D-brane*

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Dynamics

*The American High School's
Third Century*

*Physics and Philosophy:
Volume 4*

Diagrammatica

A Critical Guide

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The Path to Feynman Diagrams

An easily accessible introduction to quantum field theory via Feynman rules in particle physics.

Covering the theory of computation, information and communications, the

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physical aspects of computation, and the physical limits of computers, this text is based on the notes taken by one of its editors, Tony Hey, on a lecture course on computation given b

At the fundamental level, the interactions of elementary particles are described by quantum gauge field

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theory. The quantitative implications of these interactions are captured by scattering amplitudes, traditionally computed using Feynman diagrams. In the past decade tremendous progress has been made in our understanding of and computational abilities with regard to scattering

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amplitudes in gauge theories, going beyond the traditional textbook approach. These advances build upon on-shell methods that focus on the analytic structure of the amplitudes, as well as on their recently discovered hidden symmetries. In fact, when expressed in suitable variables the

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amplitudes are much simpler than anticipated and hidden patterns emerge. These modern methods are of increasing importance in phenomenological applications arising from the need for high-precision predictions for the experiments carried out at the Large Hadron Collider, as

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well as in foundational mathematical physics studies on the S-matrix in quantum field theory. Bridging the gap between introductory courses on quantum field theory and state-of-the-art research, these concise yet self-contained and course-tested lecture notes are well-suited for a one-

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semester graduate level course or as a self-study guide for anyone interested in fundamental aspects of quantum field theory and its applications. The numerous exercises and solutions included will help readers to embrace and apply the material presented in the main text.

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This book offers an essential bridge between college-level introductions and advanced graduate-level books on special relativity. It begins at an elementary level, presenting and discussing the basic concepts normally covered in college-level works, including the Lorentz

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transformation. Subsequent chapters introduce the four-dimensional worldview implied by the Lorentz transformations, mixing time and space coordinates, before continuing on to the formalism of tensors, a topic usually avoided in lower-level courses. The book's second half addresses a

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number of essential points, including the concept of causality; the equivalence between mass and energy, including applications; relativistic optics; and measurements and matter in Minkowski space-time. The closing chapters focus on the energy-momentum tensor of a

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continuous distribution of mass-energy and its co-variant conservation; angular momentum; a discussion of the scalar field of perfect fluids and the Maxwell field; and general coordinates. Every chapter is supplemented by a section with numerous exercises, allowing readers

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to practice the theory. These exercises constitute an essential part of the textbook, and the solutions to approximately half of them are provided in the appendix.

Lectures On Computation
Noncommutative Geometry And
Physics 4 - Workshop On Strings,

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Membranes And Topological Field
Theory

Understanding and Evaluating
Research

Black Holes

David Hilbert and the Axiomatization of
Physics (1898–1918)

College Physics

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Econophysics applies the methodology of physics to the study of economics. However, whilst physicists have good understanding of statistical physics, they may be unfamiliar with recent advances in

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statistical conjectures, including Bayesian and predictive methods. Equally, economists with knowledge of probabilities do not have a background in statistical physics and agent-based models. Proposing a unified

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view for a dynamic probabilistic approach, this book is useful for advanced undergraduate and graduate students as well as researchers in physics, economics and finance. The book takes a finitary

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approach to the subject, discussing the essentials of applied probability, and covering finite Markov chain theory and its applications to real systems. Each chapter ends with a summary, suggestions for further

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reading, and exercises with solutions at the end of the book.

Understanding and Evaluating Research: A Critical Guide aims to sensitize students to the necessity of learning how not to defer to the

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mysterious authority of the experts, but rather to learn how to be a critical consumer of others' research, and to gain confidence in their ability to be producers of research. Sue McGregor shows students

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how to be research literate,
and how to find, critique
and apply other people's
scholarship. This textbook
is grounded in a solid
understanding of the
prevailing research
methodologies for creating

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new knowledge (philosophical underpinnings), which in turn dictate problem posing, theory selection, and research methods (tasks for sampling, collecting and analyzing data, and reporting results).

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This second edition extends and improves on the first, illustrating through myriad examples, the principles and logic used in extending the simple laws of idealised Newtonian physics and quantum physics into the

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real world of noise and thermal fluctuations. This book comprehensively addresses the physics and engineering aspects of human physiology by using and building on first-year college physics and

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mathematics. Topics include the mechanics of the static body and the body in motion, the mechanical properties of the body, muscles in the body, the energetics of body metabolism, fluid flow in the cardiovascular and

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respiratory systems, the acoustics of sound waves in speaking and hearing, vision and the optics of the eye, the electrical properties of the body, and the basic engineering principles of feedback and control in

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regulating all aspects of function. The goal of this text is to clearly explain the physics issues concerning the human body, in part by developing and then using simple and subsequently more refined

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models of the macrophysics of the human body. Many chapters include a brief review of the underlying physics. There are problems at the end of each chapter; solutions to selected problems are also provided.

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This second edition enhances the treatments of the physics of motion, sports, and diseases and disorders, and integrates discussions of these topics as they appear throughout the book. Also, it briefly addresses

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physical measurements of and in the body, and offers a broader selection of problems, which, as in the first edition, are geared to a range of student levels. This text is geared to undergraduates interested in

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physics, medical
applications of physics,
quantitative physiology,
medicine, and biomedical
engineering.

Introduction to Quantum
Control and Dynamics
Quantum Trajectories and

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Measurements in Continuous
Time
With Problems and Solutions
Oswaal NCERT Problems
Solutions Textbook-Exemplar
Class 12 (3 Book Sets)
Physics, Chemistry, Biology
(For Exam 2022)

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Supercritical Fluids
Scattering Amplitudes in
Gauge Theories

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presentation for ease of
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depth study • Mind maps for**

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Some commonly made errors highlight the most common and unidentified mistakes made by students at all levels This Book Describes Topics In Nuclear Reactions At The Level Of Postgraduate Nuclear

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Physics Course And Should Also Be Useful To Research Workers Both In Theoretical And Experimental Areas Of The Subject. It Also Covers Topics Like Electron Induced Reactions And Computational

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***Methods In Nuclear Reactions
Which Are Often Not Included
In The Books On Nuclear
Reactions. Low Energy Heavy
Ion Reactions Have Been
Discussed In Detail.***

David Hilbert (1862-1943) was

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the most influential mathematician of the early twentieth century and, together with Henri Poincaré, the last mathematical universalist. His main known areas of research and

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influence were in pure mathematics (algebra, number theory, geometry, integral equations and analysis, logic and foundations), but he was also known to have some interest in physical topics. The

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latter, however, was traditionally conceived as comprising only sporadic incursions into a scientific domain which was essentially foreign to his mainstream of activity and in which he only

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made scattered, if important, contributions. Based on an extensive use of mainly unpublished archival sources, the present book presents a totally fresh and comprehensive picture of

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Hilbert's intense, original, well-informed, and highly influential involvement with physics, that spanned his entire career and that constituted a truly main focus of interest in his scientific

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horizon. His program for axiomatizing physical theories provides the connecting link with his research in more purely mathematical fields, especially geometry, and a unifying point of view from

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which to understand his physical activities in general. In particular, the now famous dialogue and interaction between Hilbert and Einstein, leading to the formulation in 1915 of the generally covariant

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field-equations of gravitation, is adequately explored here within the natural context of Hilbert's overall scientific world-view. This book will be of interest to historians of physics and of mathematics, to

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***historically-minded physicists
and mathematicians, and to
philosophers of science.***

***This book is a collection of the
lectures and talks presented in
the Tohoku Forum for
Creativity in the thematic year***

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2015 "Fundamental Problems in Quantum Physics: Strings, Black Holes and Quantum Information", and related events in the period 2014-2016. This volume especially contains an overview

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of recent developments in the theory of strings and membranes, as well as topological field theory.

*A Course in Classical Physics 4
- Waves and Light
Examination Papers for the*

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***Examination of Boys and Girls
... with Lists of Syndics and
Examiners, to which are Added
the Regulations for the
Examination in ...
A Student Text Third Edition
Statistical Mechanics Made***

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Simple

***The Computational Dynamics
of Matter, Mind, and Mankind
Volume I: Historical Evolution***

**How the technological changes that are
reshaping the future of work will
transform the American high school as**

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well. What will high school education look like in twenty years? High school students are educated today to take their places in a knowledge economy. But the knowledge economy, based on the assumption that information is a scarce and precious commodity, is giving way to an economy in which

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information is ubiquitous, digital, and machine-generated. In *Running with Robots*, Greg Toppo and Jim Tracy show how the technological advances that are already changing the world of work will transform the American high school as well. Toppo and Tracy--a journalist and an education leader,

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respectively--look at developments in artificial intelligence and other fields that promise to bring us not only driverless cars but doctorless patients, lawyerless clients, and possibly even teacherless students. They visit schools from New York City to Iowa that have begun preparing for this new world.

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Toppo and Tracy intersperse these reports from the present with bulletins from the future, telling the story of a high school principal who, Rip Van Winkle-style, sleeps for twenty years and, upon awakening in 2040, can hardly believe his eyes: the principal's amazingly efficient assistant is a robot,

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calculation is outsourced to computers, and students, grouped by competence and not grade level, focus on the conceptual. The lesson to be learned from both the present and the book's thought-experiment future: human and robotic skillsets are complementary, not in competition. We can run with robots,

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not against them.

Blended Learning combines the conventional face-to-face course delivery with an online component. The synergetic effect of the two modalities has proved to be of superior didactic value to each modality on its own. The highly improved interaction it offers to

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students, as well as direct accessibility to the lecturer, adds to the hitherto unparalleled learning outcomes.

"Blended Learning in Engineering Education: Recent Developments in Curriculum, Assessment and Practice" highlights current trends in Engineering Education involving face-

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to-face and online curriculum delivery. This book will be especially useful to lecturers and postgraduate/undergraduate students as well as university administrators who would like to not only get an up-to-date overview of contemporary developments in this field, but also help enhance

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academic performance at all levels. This tenth volume in the Poincaré Seminar Series describes recent developments at one of the most challenging frontiers in statistical physics - the deeply related fields of glassy dynamics, especially near the glass transition, and of the statics and

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dynamics of granular systems. These fields are marked by a vigorous interchange between experiment, theory, and numerical studies, all of which are well represented by the leading experts who have contributed articles to this volume. These articles are also highly pedagogical, as befits

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their origin in lectures to a broad scientific audience. Highlights include a Galilean dialogue on the mean field and competing theories of the glass transition, a wide-ranging survey of colloidal glasses, and experimental as well as theoretical treatments of the relatively new field of dense granular

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flows. This book should be of broad general interest to both physicists and mathematicians.

The twentieth century has witnessed a striking transformation in the understanding of the theories of mathematical physics. There has emerged clearly the idea that physical

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theories are significantly characterized by their abstract mathematical structure. This is in opposition to the traditional opinion that one should look to the specific applications of a theory in order to understand it. One might with reason now espouse the view that to understand the deeper character of a

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theory one must know its abstract structure and understand the significance of that structure, while to understand how a theory might be modified in light of its experimental inadequacies one must be intimately acquainted with how it is applied. Quantum theory itself has gone through

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a development this century which illustrates strikingly the shifting perspective. From a collection of intuitive physical maneuvers under Bohr, through a formative stage in which the mathematical framework was bifurcated (between Schrödinger and Heisenberg) to an elegant culmination

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in von Neumann's Hilbert space formulation the elementary theory moved, flanked even at the later stage by the ill-understood formalisms for the relativistic version and for the field-theoretic alternative; after that we have a gradual, but constant, elaboration of all these quantal theories as abstract

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mathematical structures (their point of departure being von Neumann's formalism) until at the present time theoretical work is heavily preoccupied with the manipulation of purely abstract structures.

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related to some developments and generalizations of the Boltzmann equation toward the modeling and qualitative analysis of large systems that are of interest in applied sciences. These generalizations are documented in the various surveys edited by Bellomo and

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Pulvirenti with reference to models of granular media, traffic flow, mathematical biology, communication networks, and coagulation models. The above literature motivates applied mathematicians to study the Cauchy problem and to develop an asymptotic

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analysis for models regarded as developments of the Boltzmann equation. This book aims to initiate the research plan by the analyzing aforementioned analysis problems. The first generalization dealt with refers to the averaged Boltzmann equation, which is

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obtained by suitable averaging of the distribution function of the field particles into the action domain of the test particle. This model is further developed to describe equations with dissipative collisions and a class of models that are of interest in

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mathematical biology. In this latter case the state of the particles is defined not only by a mechanical variable but also by a biological microscopic state. The book is essentially devoted to analytic aspects and deals with the analysis of the Cauchy problem and with the

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development of an asymptotic theory to obtain the macroscopic description from the mesoscopic one.

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images in the eye and in optical instruments. The textbook as a whole covers electromagnetism, mechanics, fluids and thermodynamics, and waves and light, and is designed to reflect the typical syllabus during the first two years of a calculus-based university

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physics program. Throughout all four volumes, particular attention is paid to in-depth clarification of conceptual aspects, and to this end the historical roots of the principal concepts are traced. Emphasis is also consistently placed on the experimental basis of the concepts,

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This collection of the writings of Paul Feyerabend is focused on his philosophy of quantum physics, the hotbed of the key issues of his most debated ideas. Written between 1948 and 1970, these writings come from his first and most productive period.

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These early works are important for two main reasons. First, they document Feyerabend's deep concern with the philosophical implications of quantum physics and its interpretations. These ideas were paid less attention in the following two decades. Second, the

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writings provide the crucial background for Feyerabend's critiques of Karl Popper and Thomas Kuhn. Although rarely considered by scholars, Feyerabend's early work culminated in the first version of Against Method. These writings guided

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him on all the key issues of his most well-known and debated theses, such as the incommensurability thesis, the principles of proliferation and tenacity, and his particular version of relativism, and more specifically on quantum mechanics.

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Combinatorial Kalman filters are a standard tool today for pattern recognition and charged particle reconstruction in high energy physics. In this thesis the implementation of the track finding software for the Belle II experiment and first studies on early

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Belle II data are presented. The track finding algorithm exploits novel concepts such as multivariate track quality estimates to form charged trajectory hypotheses combining information from the Belle II central drift chamber with the inner vertex

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sub-detectors. The eventual track candidates show an improvement in resolution on the parameters describing their spatial and momentum properties by up to a factor of seven over the former legacy implementation. The second part of

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the thesis documents a novel way to determine the collision event null time T_0 and the implementation of optimisation steps in the online reconstruction code, which proved crucial in overcoming the high level trigger limitations.

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This third volume follows the successful Lect. Notes Phys. 818 (Vol. 1) and 848 (Vol. 2), and comprises six extensive lectures covering the following topics: - Gamma Rays and Molecular Structure - Faddeev Equation Approach for Three Cluster

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