

Physics Extended Essay Guidelines

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Seven Fundamental Concepts in Spacetime Physics Vesselin Petkov 2021-06-13 The book presents seven fundamental concepts in spacetime physics mostly by following Hermann Minkowski's revolutionary ideas summarized in his 1908 lecture "Space and Time." These concepts are: spacetime, inertial and accelerated motion in spacetime physics, the origin and nature of inertia in spacetime physics, relativistic mass, gravitation, gravitational waves, and black holes. They have been selected because they appear to be causing most misconceptions and confusion in spacetime physics.

Physics 2014 Michael Bowen-Jones 2014-05-01 The most comprehensive coverage of the 2014 syllabus, this resource pack includes a print and online Physics Course Book, for fully flexible learning. Giving you unparalleled support for the new concept-based approach to learning, the Nature of science, understanding, applications and skills are integrated in every topic, alongside TOK to drive inquiry and independent learning. Assessment support directly from the IB includes practice questions and worked examples in each topic, along with focused support for both the Internal Assessment and Extended Essay. Truly aligned with the IB philosophy, this Course Book gives unrivalled insight and support at every stage. · Pack includes Course Book in print and fully online format for the most flexible support · Accurately cover the new syllabus - the most comprehensive match, with support directly from the IB on the core, AHL and all the options · Fully integrate the new concept-based approach, holistically addressing understanding, applications, skills and the Nature of science · Tangibly build assessment confidence with assessment support straight from the IB · Build confidence - data-based questions and focused practice support exceptional achievement · Written by co-authors of the new syllabus and leading IB workshop leaders · Online Course Book includes multiplatform access, compatible with PCs, Macs, iPads, tablets and more · Online Course Book normally accessible for seven years from syllabus release date, to be used by a single student or teacher · Supported by a fully comprehensive and updated Study Guide About the Series: Oxford's IB Diploma Course Books are essential resource materials designed in cooperation with the IB to provide students with extra support through their IB studies. Course Books provide advice and guidance on specific course assessment requirements, mirroring the IB philosophy and providing opportunities for critical thinking.

IB Physics Online Course Book: 2014 Edition Michael Bowen-Jones 2014-01-31 The only DP Physics resource developed with the IB to accurately match the new 2014 syllabus for both SL and HL, this new Online Course Book gives you unrivalled support for the new concept-based approach to learning, the Nature of science. Understanding, applications and skills are integrated in every topic, alongside TOK links and real-world connections to truly drive independent inquiry. Assessment support straight from the IB includes practice questions and worked examples in each topic, alongside support for the Internal Assessment and Extended Essay. Truly aligned with the IB philosophy, this Course Book gives unparalleled insight and support at every stage. · Fully online format, accessible anytime, anywhere · Accurately cover the new syllabus - the most comprehensive match, with support directly from the IB on the core, AHL and all the options · Fully integrate the new concept-based approach, holistically addressing understanding, applications, skills and the Nature of science · Tangibly build assessment confidence with assessment support straight from the IB · Build confidence - data-based questions and focused practice support exceptional achievement · Written by co-authors of the new syllabus and leading IB workshop leaders · Multiplatform access, compatible with PCs, Macs, iPads, tablets and more · Normally accessible for seven years from syllabus release date, to be used by a single student or teacher · Also available in print format About the Series: Oxford's IB Diploma Course Books are essential resource materials designed in cooperation with the IB to provide students with extra support through their IB studies. Course Books provide advice and guidance on specific course assessment requirements, mirroring the IB philosophy and providing opportunities for critical thinking.

Extended Irreversible Thermodynamics David Jou 2001 This is the first comprehensive monograph on a new thermodynamic theory that goes beyond the classical theory of irreversible processes. In contrast to the classical approach, the local equilibrium hypothesis is abandoned, and the basic variables are complemented by non-equilibrium quantities. The claims made for extended thermodynamics are confirmed by the kinetic theory of gases and statistical mechanics. The book covers a wide spectrum of applications, and also contains a wide discussion of the foundations and the scope of the most current theories of non-equilibrium thermodynamics. The present edition reflects new developments in the theory of applications, adds new problems and provides a more detailed comparison with other fields of active research. It contains 130 proposed problems, whose detailed solutions, as well as wide bibliography on extended irreversible thermodynamics and related topics, may be unloaded from the www.uab.es/dep-fisica/eit website.

Der Besuch der alten Dame 2008

The Psychologist 2008

Physics Practical Scheme of Work - For Use with the Ib Diploma Programme Michael J. Dickinson 2014-01-01 The Physics Practical Scheme of Work for use with the IB Diploma Programme by Michael J. Dickinson, is an invaluable resource for IB Physics teachers, whether new to teaching the course or a seasoned veteran. This second edition has been fully updated to align with the latest requirements of the Internal Assessment (IA) aspect of the IB Physics Guide (first assessment 2016). It is a collection of 60 lab experiments from a range of physics topics, rewritten to comply with the latest guide's Personal Engagement, Exploration, Analysis, Evaluation & Communication criteria. The guide accompanies the textbook, Physics for use with the IB Diploma Programme also by Michael J. Dickinson. Written in plain English with an international audience in mind, it is the ideal teaching and learning resource for both standard and higher levels of the IB Physics course. This Practical Scheme of Work contains: A collection of 60 lab experiment sheets covering a wide range of topics, each one containing a marking grid so that the criteria being assessed is easily identified. Invaluable information which is aimed to help teachers understand the latest requirements of the Internal Assessment (IA) aspect of the course (first assessment 2016). Examples of the 4/PSOW and new 4/CSS coversheets describing exactly what information is required by the IBO when student IA sample work is submitted for moderation. An explanation of the regulations regarding the Personal Engagement, Exploration, Analysis, Evaluation and Communication criteria of the Practical Scheme of Work. A marked example of the new Individual Investigation written in accordance with the IB Internal Assessment regulations, with supporting notes to provide guidance to teachers and students regarding the IB assessment of the students' practical work. Numerous titles for practical experiments that teachers can use as inspiration for their own practical scheme of work, ideas of titles for students' Individual Investigations or topics that students can use when deciding on a title for an Extended Essay in Physics. An explanation and example of the requirements of the Group 4 Project.

Statistical Physics of Synchronization Shamik Gupta 2018-08-28 This book introduces and discusses the analysis of interacting many-body complex systems exhibiting spontaneous synchronization from the perspective of nonequilibrium statistical physics. While such systems have been mostly studied using dynamical system theory, the book underlines the usefulness of the statistical physics approach to obtain insightful results in a number of representative dynamical settings. Although it is intractable to follow the dynamics of a particular initial condition, statistical physics allows to derive exact analytical results in the limit of an infinite number of interacting units. Chapter one discusses dynamical characterization of individual units of synchronizing systems as well as of their interaction and summarizes the relevant tools of statistical physics. The latter are then used in chapters two and three to discuss respectively synchronizing systems with either a first- or a second-order evolution in time. This book provides a timely introduction to the subject and is meant for the uninitiated as well as for experienced researchers working in areas of nonlinear dynamics and chaos, statistical physics, and complex systems.

Resources in Education 1998

Emergence of Temperature in Examples and Related Nuisances in Field Theory Tamás Sándor Biró 2019-02-07 Field theory, relying on the concept of continuous space and time while confronted with the quantum physical nature of observable quantities, still has some fundamental challenges to face. One such challenge is to understand the emergence of complexity in the behavior of interacting elementary fields, including among other things nontrivial phase structures of elementary matter at high energy density or an atypical emergence of statistical properties, e.g., when an apparent temperature is proportional to a constant acceleration in a homogeneous gravitational field. Most modern textbooks on thermal field theory are mainly concerned with how the field theory formalism should be used if a finite temperature is given. In contrast, this short primer explores how the phenomenon of temperature emerges physically for elementary fields - inquiring about the underlying kinetic field theory and the way energy fluctuations and other noise should be handled - and it investigates whether and how this harmonizes with traditional field theory concepts like spectral evolution, the Keldysh formalism, and phase transitions.

Der Kinogehrer Walker Percy 2016-05-08 Die Filmbesuche des Kinogehers lassen sich nicht als triviale Zerstreuung verstehen, sie offenbaren ihm die Einsamkeit und Hilflosigkeit seiner Suche. Doch jene Suchen, von denen die Filme erzählen, sind verfälscht: Der Held und Außenseiter endet glücklich als Konformist in der Menge. Die Mutter des Kinogehers, die ihr Kind der vornehmen Verwandtschaft überließ, als sie den einfachen zweiten Mann heiratete, eine Schaffnerin, die das hier und jetzt Notwendige ohne viel Worte tut, gibt dem Sohn einen Hinweis, als sie in ihrer unsentimentalen Art ihm von der Unrast und den Depressionen seines Vaters, des Arztes, berichtet. Schließlich findet der Kinogehrer einen Weg, auf dem er zu suchen beginnen kann. Der Weg führt fort von leicht verdientem Geld und schönen Mädchen, fort auch von spektakulärer Leistung ... »Eine seltene wahre Geschichte« nennt der Übersetzer Peter Handke den Roman, den ersten des Autors, der 1961 mit dem National Book Award ausgezeichnet wurde und Walker Percy sofort bekannt machte.

Fundamentals of Physics David Halliday 1988-02-09 This third edition of the famous introductory physics text has been thoroughly revised and updated. The new edition contains two entirely new chapters: "Relativity" as the concluding chapter of the regular version, and "Particles and the Cosmos" as the concluding chapter of the extended version. New also are 16 essays, distributed throughout the text, on applications of physics to "real world" topics of student interest. Each essay is self-contained and is written by an expert in the topic. The body of the text contains more help in problem-solving and the chapter sections are shorter, making the material more accessible. There are more photos and diagrams than before, including attention-getting chapter-head photos and captions. The number of worked examples has been increased, as has the number of questions, exercises, and problems. In addition, a thread of ideas from relativistic and quantum physics is weaved through the earlier chapters, preparing the way for the later chapters.

8 Years UPSC Civil Services IAS Mains Essay Year-wise Solved Papers (2013 - 2020) 2nd Edition Disha Experts 2020-02-04

Blick zurück im Zorn John Osborne 1995

Antihydrogen and Fundamental Physics Michael Charlton 2020-07-19 The advent of high-precision antihydrogen spectroscopy has opened up the possibility of direct tests with unprecedented accuracy of some of the most fundamental principles of physics, notably Lorentz and CPT symmetry and the Einstein equivalence principle. This book reviews these principles, emphasising their interconnections in quantum field theory and general relativity and the special role of antimatter, and explores how they may be tested in current and forthcoming experiments on antihydrogen. Original research results relevant to the experimental programme of the ALPHA collaboration at CERN are presented, together with the implications for antihydrogen of proposed theories featuring novel "fifth-force" interactions.

Das Ziel Elyahu M. Goldratt 2013-03-09 Ein Roman über Prozessoptimierung? Geht das? Das geht nicht nur - das liest sich auch spannend von der ersten bis zur letzten Seite. Elyahu M. Goldratt "Das Ziel" ist die Geschichte des Managers Alex Rogo, der mit ungewöhnlichen und schlagkräftigen neuen Methoden in seinem Unternehmen für Aufsehen sorgt. Der Klassiker unter den Wirtschaftsbüchern, der das Managementdenken weltweit umkrempelt, wurde jetzt erweitert um den wichtigsten Aufsatz des Autors, "Standing on the Shoulders of Giants": Pflichtlektüre für Manager - und fesselnder Lesestoff.

The Physics of the Dark Photon Marco Fabbrichesi 2020-11-23 This book is about the dark photon which is a new gauge boson whose existence has been conjectured. Due to its interaction with the ordinary, visible photon, such a particle can be experimentally detected via specific signatures. In this book, the authors review the physics of the dark photon from the theoretical and experimental point of view. They discuss the difference between the massive and the massless case, highlighting how the two phenomena arise from the same vector portal between the dark and the visible sector. A review of the cosmological and astrophysical observations is provided, together with the connection to dark matter physics. Then, a perspective on current and future experimental limits on the parameters of the massless and massive dark photon is given, as well as the related bounds on milli-charged fermions. The book is intended for graduate students and young researchers who are embarking on dark photon research, and offers them a clear and up-to-date introduction to the subject.

Writing a Thesis George Watson 1987 This practical text aims to stimulate literary and historical research on the one hand, while disciplining it on the other. Although written primarily with students of literature and history in mind, it deals with issues of equal concern to students of law, social sciences and the physical sciences. Any student faced with a thesis, dissertation or extended essay should find it helpful and entertaining in equal measure.

Semiclassical Physics Matthias Brack 1997-03-30 Semiclassical Physics emphasizes the close connection between the shorter classical periodic orbits, and the partially resolved quantum fluctuations in the level density and response of an autonomous finite quantum system. Particular care is taken to present a detailed derivation of Gutzwiller's trace formula, and its extensions to continuous symmetries, zeta function techniques, and diffractive orbits. Simple model examples are used to illustrate the formalism. The self-consistent mean-field approach to the many-body problem is used, and the extended Thomas-Fermi model posited for the average properties of finite fermion systems. Strutinsky's energy theorem is exploited to bring out the quantum effects in interacting systems. Experimental manifestations of quantum shell structure, and their understanding in terms of a few classical orbits, are illustrated in atomic nuclei, metal clusters, and mesoscopic devices. Chapters one, two, and eight are meant for the general reader interested in semiclassical physics and a survey of relevant experiments. The other five chapters give a detailed,

but elementary, exposition of the theory aimed at the second-year graduate student level.

Some Unusual Topics in Quantum Mechanics Pankaj Sharan 2020-11-28 In this book, the author addresses selected topics in quantum mechanics that are not usually covered in books, but which are very helpful in developing a student's interest in, and a deeper understanding of the subject. The topics include two different ways of looking at quantum mechanics; three clarifying topics that students often find confusing; one classic theorem never proved in the classroom; and a discussion on whether there can be a non-linear quantum mechanics. The book can be used as supporting material for graduate-level core courses on quantum mechanics.

Extended Electromagnetic Theory Bo Lehnert 1998 This book presents extended forms of the Maxwell equations as well as electromagnetic fields, based on a non-zero divergence of the electric field and a non-zero electric conductivity in vacuo. These approaches, which predict new features of the electromagnetic field, such as the existence of both longitudinal and transverse solutions, the existence of space-charge current in vacuo, and steady electromagnetic equilibria, have possible applications to charge and neutral leptons and new photon physics. The present theory can also clear up some unsolved problems, such as the total reflection of light at the interface between a vacuum and a dissipative medium, and the appearance of an angular momentum of the photon, thereby leading to a rest mass and an axial magnetic field component of the photon. This axial magnetic field component may be related to the B(3) field proposed by Evans and Vigier. A new gauge condition has been proposed to maintain consistency of the theory with the non-zero photon mass. Several consequences of the non-zero mass of the photon are also discussed, especially in the astrophysical context.

Als ich im Sterben lag William Faulkner 1973 Als die Matriarchin Addi Bundren im Sterben lag, verlangte sie, in ihrer Heimatstadt Jefferson begraben zu werden. Der Leichenzug der "armen weißen" Familie - erzählt in 60 kurzen Abschnitten aus den stets wechselnden Perspektiven der 15 Beteiligten - ist ein mit sardonischem Humor sich selbst darstellendes Pandämonium

The Math EE: Earning Full Marks on Your Mathematics Extended Essay Daniel Slosberg 2017-08-27 This short book will take you step-by-step through the IB DP Extended Essay criteria for a Math EE and help you earn each and every point so that you can achieve full marks on your Math EE.

Die Struktur wissenschaftlicher Revolutionen Thomas S. Kuhn 2003

The Science EE: Earning Full Marks on Your Science Extended Essay Daniel Slosberg 2016-08-02 This short step by step guide to earning full marks on the International Baccalaureate science extended essay (including biology, chemistry, and physics) gives guidance and assistance to students to maximize their extended essay marks. Important changes from the previous EE, such as the new form EE/RPPF required at the start of the EE process, are highlighted for advisors as well as students so that nothing stands between a student and their A on their EE.

7 Years UPSC IAS/IPS Mains Essay Year-wise Solved Papers (2013 - 2019) Disha Experts 2020-05-24

Handbook of Research on Science Teaching and Learning Dorothy Gabel 1994 Sponsored by the National Science Teachers Association, this handbook provides a uniquely comprehensive and current survey of the best research in science education compiled by the most renowned researchers. More than summaries of findings, the content provides an assessment of the significance of research, evaluates new developments, and examines current conflicts, controversies, and issues in the major science disciplines: biology, chemistry, physics, and earth science.

General Model Independent Searches for Physics Beyond the Standard Model Saranya Samik Ghosh 2020 This primer describes the general model independent searches for new physics phenomena beyond the Standard Model of particle physics. First, the motivation for performing general model independent experimental searches for new physics is presented by giving an overview of the current theoretical understanding of particle physics in terms of the Standard Model of particle physics and its shortcomings. Then, the concept and features of general model independent search for new physics at collider based experiments is explained. This is followed by an overview of such searches performed in past high energy physics experiments and the current status of such searches, particularly in the context of the experiments at the LHC. Finally, the future prospects of such general model independent searches, with possible improvements using new tools such as machine learning techniques, is discussed.

Functional Analysis and Optimization Methods in Hadron Physics Irinel Caprini 2019-04-25 This book begins with a brief historical review of the early applications of standard dispersion relations in particle physics. It then presents the modern perspective within the Standard Model, emphasizing the relation of analyticity together with alternative tools applied to strong interactions, such as perturbative and lattice quantum chromodynamics (QCD), as well as chiral perturbation theory. The core of the book argues that, in order to improve the prediction of specific hadronic observables, it is often necessary to resort to methods of complex analysis more sophisticated than the simple Cauchy integral. Accordingly, a separate mathematical chapter is devoted to solving several functional analysis optimization problems. Their applications to physical amplitudes and form factors are discussed in the following chapters, which also demonstrate how to merge the analytic approach with statistical analysis tools. Given its scope, the book offers a valuable guide for researchers working in precision hadronic physics, as well as graduate students who are new to the field.

Explanation from Physics to Theology Philip Clayton 1989-01-01 A valuable exposition of the thesis that the explanatory work of theology possesses formal similarities with that of the physical sciences, the social sciences, and philosophy. Clayton exhibits an impressive command of a broad area of scholarship, and his reflections are balanced and carefully argued. -- Michael J. Buckley, S.J., Jesuit Theological Seminary

Selected Special Functions for Fundamental Physics Valeriya Akhmedova 2019-11-14 This book presents calculation methods that are used in both mathematical and theoretical physics. These methods will allow readers to work with selected special functions and more generally with differential equations, which are the most frequently used in quantum mechanics, theory of relativity and quantum field theory. The authors explain various approximation methods used to solve differential equations and to estimate integrals. They also address the basics of the relations between differential equations, special functions and representation theory of some of the simplest algebras on the one hand, and fundamental physics on the other. Based on a seminar for graduate physics students, the book offers a compact and quick way to learn about special functions. To gain the most from it, readers should be familiar with the basics of calculus, linear algebra, and complex analysis, as well as the basic methods used to solve differential equations and calculate integrals.

Bulletin of the Atomic Scientists 1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

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Higher Education Access in the Asia Pacific Christopher S. Collins 2017-08-23 This edited volume offers empirical, evaluative, and philosophical perspectives on the question of higher education as a human right in the Asia Pacific. Throughout the region, higher education has grown rapidly in a variety of ways. Price, accessibility, mobility, and government funding are all key areas of interest, which likely shape the degree to which higher education may be viewed as a human right. Although enrollments continue to grow in many higher education systems, protests related to fees and other equity issues continue to grow. This volume will include scholarly perspectives from around the region for a more extensive understanding of higher education as a human right in the Asia Pacific.

The International Baccalaureate Diploma Programme Tim Pound 2006-05-02 The International Baccalaureate (IB) is a respected qualification gaining increasing currency around the world, and which has been adopted by a wide variety of schools, both public and private. In the UK, growing dissatisfaction with the A-level system has led to an intense debate about alternative qualifications, and in many schools IB courses have been introduced alongside conventional A-level courses. This practical introduction to the IB takes a balanced look at the pros and cons and features a wealth of advice from those actually involved in teaching and implementing it in schools. Providing comparative material on how IB courses differ from A-levels and a subject-by-subject account of best practice in teaching the IB, this book offers a rich source of practical advice for teachers, school leaders or managers involved in teaching or implementing the IB programmes.

Reforming or Re-inventing Schools? John MacBeath 2019-12-20 What has changed and what will change in the next decade? Reforming or Re-inventing Schools? revisits some of the key issues in school and system reform, with a reflection on developments in the English education system and internationally. It offers an insightful review and critique of education principles and their relationship to school practice, exploring some of the myths as well as examining the potential value of comparative data. Drawing on new evidence and interviews with a group of policy makers and academics on the British and international stages, this book asks: What do parents, children and 'society' want from a system of education? What motivates teachers to join the profession and why do such large numbers leave so soon? What are the roots of misunderstanding and mismanagement in provision, support and accountability? How do teachers communicate, support and exchange ideas with each other? How do we measure positive change? Examining the roots and conditions for growth, and comparing and contrasting the situation in the United Kingdom with innovative development taking place elsewhere in the rest of the world, Reforming or Re-inventing Schools? is an essential read for anyone interested in school and country performance at a national and international level.

Bulletin of the Atomic Scientists 1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

Moses Mendelssohn's Metaphysics and Aesthetics Reinier Munk 2011-10-20 This book presents an extended dialogue in essay form between specialists in the work of Moses Mendelssohn, and experts in important trends in related late-seventeenth and eighteenth century thought. The first group of contributors explores themes in Mendelssohn's metaphysics and aesthetics, presenting both their internal argumentative coherence and their historical context. The second outlines the context of Mendelssohn's views on specific topics, and describes his contribution to the discussion of them. The essays are organized in four sections. The first pairs two essays on Mendelssohn's theory of language and writing. The second section offers three essays addressing a number of topics in Mathematics and philosophy in Mendelssohn. A group of eight essays follows, dealing with Metaphysics in a historical context. The fourth section presents five essays discussing Mendelssohn's Aesthetics in a historical context. Moses Mendelssohn's Metaphysics and Aesthetics arises from a conference held in Amsterdam in 2009, which gathered numerous authorities to address the central theme. Taken together, these eighteen essays present a sophisticated portrait of Mendelssohn, packed with detail and rich in complexity.

Physics for the IB Diploma Paper 1 Multiple Choice Worked Solutions purplewave publications 2021-01-08 A must-have for all HL IB Physics Students. Complete, fully explained solutions for every paper 1 HL question from every released paper from the current syllabus (all seasons and time-zones from the new syllabus, including 2019) covering over 450 questions. This book is written by three IB graduates and current Physics tutors who all achieved a grade 7 in HL Physics and 43+ points overall (including 45-points!). Be guided through each question with detailed, step-by-step instructions to reach the correct answer. Take advantage of the plethora of useful tips included in the solutions, to get an edge on the day of the exam. Learn the most efficient way to answer each question in examination conditions - including techniques they don't teach you in school! This book is designed with multiple-choice in mind. You will develop strategies to spot the correct answer and be confident that your choice is correct. This detailed guide contains: A breakdown of what paper 1 is, its structure, format and relevance to the other papers Detailed worked solutions for all released paper 1 questions in the current syllabus (2016 onwards) A 45-point student's guide to acing paper 1. PLUS: A comprehensive Physics IA guide and checklist with detailed tips from the perspective of the examiner. A complete sample grade 7 IA (that obtained a score of 22/24 in 2020). Access to a complete sample level A Extended Essay. FULLY UPDATED FOR THE 2021 EXAM CYCLE. Use this book to walk into the exam hall with confidence that you have the skills to tackle any question that emerges.

Hans Jonas David J. Levy 2002 "Setting Jonas's work in the historical and philosophical context of his life and times, Levy summarizes Jonas's original achievements in fields as apparently diverse as the history of ancient Gnosticism, the philosophical significance of biology, the problems of ethics in a technological age, and the mysteries of theology, while demonstrating the notable unity of theme and purpose that guided his various fields of inquiry." "Unlike the scattered works, anthologies, and essays that are currently available, Hans Jonas: The Integrity of Thinking provides a much-needed single, coherent overview of the various fields to which Jonas's attention was drawn, bringing out the unified, systematic quality of Jonas's philosophical approach." --BOOK JACKET.