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KEY=FIXED - NOVAK SHEPPARD

FUNDAMENTAL TRENDS IN FLUID-STRUCTURE INTERACTION

World Scientific The interaction of a fluid with a solid body is a widespread phenomenon in nature, occurring at different scales and different applied disciplines. Interestingly enough, even though the mathematical theory of the motion of bodies in a liquid is one of the oldest and most classical problems in fluid mechanics, mathematicians have, only very recently, become interested in a systematic study of the basic problems related to fluid-structure interaction, from both analytical and numerical viewpoints. **Fundamental Trends in Fluid-Structure Interaction** is a unique collection of important papers written by world-renowned experts aimed at furnishing the highest level of development in several significant areas of fluid-structure interactions. The contributions cover several aspects of this discipline, from mathematical analysis, numerical simulation and modeling viewpoints, including motion of rigid and elastic bodies in a viscous liquid, particulate flow and hemodynamic.

THE GENERAL PROBLEM OF THE MOTION OF COUPLED RIGID BODIES ABOUT A FIXED POINT

Springer Science & Business Media In the theory of motion of several coupled rigid bodies about a fixed point one can distinguish three basic ramifications. 1. The first, the so-called classical direction of investigations, is concerned with particular cases of integrability of the equations of motion of a single rigid body about a fixed point,1 and with their geo metrical interpretation. This path of thought was predominant until the beginning of the 20th century and its most illustrious represen tatives are L. EULER (1707-1783), J L. LAGRANGE (1736-1813), L. POINSOT (1777-1859), S. V. KOVALEVSKAYA (1850-1891), and others. Chapter I of the present monograph intends to reflect this branch of investigations. For collateral reading on the general questions dealt with in this chapter the reader is referred to the following textbooks and reports: A. DOMOGAROV [1], F. KLEIN and A. SOMMERFELD [11, 1 , 1 J, A. G. 2 3 GREENHILL [10], A. GRAY [1J, R. GRAMMEL [4 J, E. J. ROUTH [21' 2 , 1 2 31' 32], J. B. SCARBOROUGH [1], and V. V. GOLUBEV [1, 2].

A COMMENTARY ON THERMODYNAMICS

Springer Science & Business Media The aim of this book is to comment on, and clarify, the mathematical aspects of the theory of thermodynamics. The standard presentations of the subject are often beset by a number of obscurities associated with the words "state", "reversible", "irreversible", and "quasi-static". This book is written in the belief that such obscurities are best removed not by the formal axiomatization of thermodynamics, but by setting the theory in the wider context of a genuine field theory which incorporates the effects of heat conduction and inertia, and proving appropriate results about the governing differential equations of this field theory. Even in the simplest one-dimensional case it is a nontrivial task to carry through the details of this program, and many challenging problems remain open.

PHILOSOPHY REBORN PART IV: NATURALLY UNHEALTHY BIG PHARMA & BIG MEDIA

Shawn Alli Liberal media outlets vilify the natural health movement but give Big Pharma a pass. That's not accidental. That's intentional. Once seen as rare diseases, cancer and autoimmune diseases are now chronic and debilitating. Obesity is permanently part of Western-European (WE) society. Mental health conditions are now a regular part of life. Why is our society like this? Is there a cure? Why do WE governments continue their war against marijuana? Why are millions of people drugging themselves to sleep with pharmaceutical drugs? Can you be free of cancer and autoimmune diseases without Big Pharma? Is there meaning and purpose to your pain and lack of heath? You'll find the answers to all of these questions in Part IV.

UNCERTAINTY QUANTIFICATION FOR HYPERBOLIC AND KINETIC EQUATIONS

Springer This book explores recent advances in uncertainty quantification for hyperbolic, kinetic, and related problems. The contributions address a range of different aspects, including: polynomial chaos expansions, perturbation methods, multi-level Monte Carlo methods, importance sampling, and moment methods. The interest in these topics is rapidly growing, as their applications have now expanded to many areas in engineering, physics, biology and the social sciences. Accordingly, the book provides the scientific community with a topical overview of the latest research efforts.

INCOMPRESSIBLE BIPOLAR AND NON-NEWTONIAN VISCOUS FLUID FLOW

Springer Science & Business Media The theory of incompressible multipolar viscous fluids is a non-Newtonian model of fluid flow, which incorporates nonlinear viscosity, as well as higher order velocity gradients, and is based on scientific first principles. The Navier-Stokes model of fluid flow is based on the Stokes hypothesis, which a priori simplifies and restricts the relationship between the stress tensor and the velocity. By relaxing the constraints of the Stokes hypothesis, the mathematical theory of multipolar viscous fluids generalizes the standard Navier-Stokes model. The rigorous theory of multipolar viscous fluids is compatible with all known thermodynamical processes and the principle of material frame indifference; this is in contrast with the formulation of most non-Newtonian fluid flow models which result from ad hoc assumptions about the relation between the stress tensor and the velocity. The higher-order boundary conditions, which must be formulated for multipolar viscous flow problems, are a rigorous consequence of the principle of virtual work; this is in stark contrast to the approach employed by authors who have studied the regularizing effects of adding artificial viscosity, in the form of higher order spatial derivatives, to the Navier-Stokes model. A number of research groups, primarily in the United States, Germany, Eastern Europe, and China, have explored the consequences of multipolar viscous fluid models; these efforts, and those of the authors, which are described in this book, have focused on the solution of problems in the context of specific geometries, on the existence of weak and classical solutions, and on dynamical systems aspects of the theory. This volume will be a valuable resource for mathematicians interested in solutions to systems of nonlinear partial differential equations, as well as to applied mathematicians, fluid dynamicists, and mechanical engineers with an interest in the problems of fluid mechanics.

THE MECHANISATION OF ARISTOTELIANISM

THE LATE ARISTOTELIAN SETTING OF THOMAS HOBBS'S NATURAL PHILOSOPHY

BRILL An acclaimed study - now available for the first time in English - investigates the relation between Thomas Hobbes natural philosophy as represented in his *Prima Philosophia* (the second part of "De corpore" (1655)) and the various currents of Renaissance and early modern Aristotelianism.

NICOMACHEAN ETHICS

Phoemixx Classics Ebooks **Nicomachean Ethics Aristotle - The Nicomachean Ethics** is one of Aristotle's most widely read and influential works. Ideas central to ethics—that happiness is the end of human endeavor, that moral virtue is formed through action and habituation, and that good action requires prudence—found their most powerful proponent in the person medieval scholars simply called "the Philosopher." Drawing on their intimate knowledge of Aristotle's thought, Robert C. Bartlett and Susan D. Collins have produced here an English-language translation of the Ethics that is as remarkably faithful to the original as it is graceful in its rendering. Aristotle is well known for the precision with which he chooses his words, and in this elegant translation his work has found its ideal match. Bartlett and Collins provide copious notes and a glossary providing context and further explanation for students, as well as an introduction and a substantial interpretive essay that sketch central arguments of the work and the seminal place of Aristotle's Ethics in his political philosophy as a whole. The Nicomachean Ethics has engaged the serious interest of readers across centuries and civilizations—of peoples ancient, medieval, and modern; pagan, Christian, Muslim, and Jewish—and this new edition will take its place as the standard English-language translation.

THE CONFLUENT HYPERGEOMETRIC FUNCTION

WITH SPECIAL EMPHASIS ON ITS APPLICATIONS

Springer Science & Business Media The subject of this book is the higher transcendental function known as the confluent hypergeometric function. In the last two decades this function has taken on an ever increasing significance because of its use in the application of mathematics to physical and technical problems. There is no doubt that this trend will continue until the general theory of confluent hypergeometric functions becomes familiar to the majority of physicists in much the same way as the cylinder functions, which were previously less well known, are now used in many engineering and physical problems. This book is intended to further this development. The important practical significance of the functions which are treated hardly demands an involved discussion since they include, as special cases, a number of simpler special functions which have long been the everyday tool of the physicist. It is sufficient to mention that these include, among others, the logarithmic integral, the integral sine and cosine, the error integral, the Fresnel integral, the cylinder functions and the cylinder function in parabolic cylindrical coordinates. For anyone who puts forth the effort to study the confluent hypergeometric function in more detail there is the inestimable advantage of being able to understand the properties of other functions derivable from it. This general point of view is particularly useful in connection with series expansions valid for values of the argument near zero or infinity and in connection with the various integral representations.

ENCYCLOPEDIA OF STATISTICAL SCIENCES, VOLUME 1

John Wiley & Sons **ENCYCLOPEDIA OF STATISTICAL SCIENCES**

STABILITY OF FLUID MOTIONS I

Springer Science & Business Media The study of stability aims at understanding the abrupt changes which are observed in fluid motions as the external parameters are varied. It is a demanding study, far from full grown whose most interesting conclusions are recent. I have written a detailed account of those parts of the recent theory which I regard as established. Acknowledgements I started writing this book in 1967 at the invitation of Clifford Truesdell. It was to be a short work on the energy theory of stability and if I had stuck to that I would have finished the writing many years ago. The theory of stability has developed so rapidly since 1967 that the book I might then have written would now have a much too limited scope. I am grateful to Truesdell, not so much for the invitation to spend endless hours of writing and erasing, but for the generous way he has supported my efforts and encouraged me to higher standards of good work. I have tried to follow Truesdell's advice to write this work in a clear and uncomplicated style. This is not easy advice for a former sociologist to follow; if I have failed it is not due to a lack of urging by him or trying by me. My research during the years 1969-1970 was supported in part by a grant from the Guggenheim foundation to study in London.

EXTENDED THERMODYNAMICS

Springer Science & Business Media Physicists firmly believe that the differential equations of nature should be hyperbolic so as to exclude action at a distance; yet the equations of irreversible thermodynamics - those of Navier-Stokes and Fourier - are parabolic. This incompatibility between the expectation of physicists and the classical laws of thermodynamics has prompted the formulation of extended thermodynamics. After describing the motifs and early evolution of this new branch of irreversible thermodynamics, the authors apply the theory to mon-atomic gases, mixtures of gases, relativistic gases, and "gases" of phonons and photons. The discussion brings into perspective the various phenomena called second sound, such as heat propagation, propagation of shear stress and concentration, and the second sound in liquid helium. The formal mathematical structure of extended thermodynamics is exposed and the theory is shown to be fully compatible with the kinetic theory of gases. The study closes with the testing of extended thermodynamics through the exploitation of its predictions for measurements of light scattering and sound propagation.

PHILOSOPHY OF COMPUTING

THEMES FROM IACAP 2019

Springer Nature

STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES

A PATH FORWARD

National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. **Strengthening Forensic Science in the United States: A Path Forward** provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. **Strengthening Forensic Science in the United States** gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

HAQIQATUL-WAHI

THE PHILOSOPHY OF DIVINE REVELATION

Islam International Publications Ltd In this book the Promised Messiah, on whom be peace, discusses the philosophy of divine revelation, the three categories of people who claim to receive revelation, and the distinction of the truthful from the false. He then establishes his truthfulness by documenting over 200 Signs, including the fulfillment of prophecies made by the Holy Prophet Muhammad, may peace and blessings of Allah be upon him, other men of God, earlier scriptures, and his own revelations spanning over twenty-five years. The author cites numerous examples of his enemies who publicly predicted his downfall and demise, only to become the very victims of their own prophecies. God, however, protected him against every assault, while continuously reassuring him of His promise to bless his Community—a promise which continues to bear the seal and testimony of history. The author also appeals to the followers of different faiths to read this book cover to cover to appreciate and accept this evidence as proof that God is One and the Holy Prophet

Muhammad is the Messenger of God, and that he is the Promised Messiah raised to unite humanity under the banner of Islam.

GOD AND GOODNESS

A NATURAL THEOLOGICAL PERSPECTIVE

Routledge First Published in 2004. God and Goodness takes the experience of value as a starting point for natural theology. Mark Wynn argues that theism offers our best understanding of the goodness of the world, especially its beauty and openness to the development of richer and more complex material forms. We also see that the world's goodness calls for a moral response: commitment to the goodness of the world represents a natural extension of the trust to which we aspire in our dealings with human beings. Wynn argues that the goodness of the world provides a glimpse into what we should mean by 'God'. Here, he seeks to recover the mediaeval sense that the goodness of the world offers an image of the goodness of God, not simply in relation to the world, but in itself. This book will be an invaluable read for those interested in natural theology and philosophy of religion.

RELIGION AS A SOCIAL DETERMINANT OF PUBLIC HEALTH

Oxford University Press Leading scholars in the social sciences, public health and religion examine the embodied sacred practices of the world's religions, the history of alignment and tension between religious and public health institutions and the role of religious institutions in health and development efforts around the globe.

APPROXIMATION OF FUNCTIONS: THEORY AND NUMERICAL METHODS

Springer Science & Business Media for example, the so-called L_p approximation, the Bernstein approximation problem (approximation on the real line by certain entire functions), and the highly interesting studies of J. L. WALSH on approximation in the complex plane. I would like to extend sincere thanks to Professor L. COLLATZ for his many encouragements for the writing of this book. Thanks are equally due to Springer-Verlag for their ready agreement to my wishes, and for the excellent and competent composition of the book. In addition, I would like to thank Dr. W. KRABS, Dr. A. -G. MEYER and D. SCHWEDT for their very careful reading of the manuscript. Hamburg, March 1964 GUNTER MEINARDUS Preface to the English Edition This English edition was translated by Dr. LARRY SCHUMAKER, Mathematics Research Center, United States Army, The University of Wisconsin, Madison, from a supplemented version of the German edition. Apart from a number of minor additions and corrections and a few new proofs (e. g. , the new proof of JACKSON'S Theorem), it differs in detail from the first edition by the inclusion of a discussion of new work on comparison theorems in the case of so-called regular Haar systems (§ 6) and on Segment Approximation (§ 11). I want to thank the many readers who provided comments and helpful suggestions. My special thanks are due to the translator, to Springer-Verlag for their ready compliance with all my wishes, to Mr.

CAVENDISH

American Philosophical Society "The Cavendishes flourished during the high tide of British aristocracy following the revolution of 1688-89, and the case can be made that this aristocracy knew its finest hour when Henry Cavendish gently laid his delicate weights in the pan of his incomparable precision balance. For this it took two generations and two kinds of invention, one in social forms and the other in scientific technique. This biography tells how it came to pass."--Book jacket

ENCYCLOPEDIA OF MEDIEVAL PHILOSOPHY

PHILOSOPHY BETWEEN 500 AND 1500

Springer Science & Business Media This is the first reference ever devoted to medieval philosophy. It covers all areas of the field from 500-1500 including philosophers, philosophies, key terms and concepts. It also provides analyses of particular theories plus cultural and social contexts.

INFORMATION—CONSCIOUSNESS—REALITY

HOW A NEW UNDERSTANDING OF THE UNIVERSE CAN HELP ANSWER AGE-OLD QUESTIONS OF EXISTENCE

Springer This open access book chronicles the rise of a new scientific paradigm offering novel insights into the age-old enigmas of existence. Over 300 years ago, the human mind discovered the machine code of reality: mathematics. By utilizing abstract thought systems, humans began to decode the workings of the cosmos. From this understanding, the current scientific paradigm emerged, ultimately discovering the gift of technology. Today, however, our island of knowledge is surrounded by ever longer shores of ignorance. Science appears to have hit a dead end when confronted with the nature of reality and consciousness. In this fascinating and accessible volume, James Glattfelder explores a radical paradigm shift uncovering the ontology of reality. It is found to be information-theoretic and participatory, yielding a computational and programmable universe.

LEVIATHAN

Strelbytskyy Multimedia Publishing Leviathan or The Matter, Forme and Power of a Common-Wealth Ecclesiastical and Civil is a book written by an English materialist philosopher Thomas Hobbes about problems of the state existence and development. Leviathan is a name of a Bible monster, a symbol of nature powers that belittles a man. Hobbes uses this character to describe a powerful state ("God of the death"). He starts with a postulate about a natural human state ("the war of all against all") and develops the idea "man is a wolf to a man". When people stay for a long time in the position of an inevitable extermination they give a part of their natural rights, for the sake of their lives and general peace, according to an unspoken agreement to someone who is obliged to maintain a free usage of the rest of their rights - to the state. The state, a union of people, where the will of a single one (the state) is compulsory for everybody, has a task to regulate the relations between all the people. The book was banned several times in England and Russia.

ABOUT ONESELF

DE SE THOUGHT AND COMMUNICATION

Oxford University Press This volume addresses the nature of first-person, or de se, thought. Many have held that first-person thought motivates a revision of traditional accounts of content and how it is accessed, but this raises puzzling questions about how we are able to communicate such thoughts. It is these questions that are answered here.

HANDBOOK OF PRACTICAL LOGIC AND AUTOMATED REASONING

Cambridge University Press One-stop reference, self-contained, with theoretical topics presented in conjunction with implementations for which code is supplied.

THE PRODUCTION OF SPACE

Wiley-Blackwell Henri Lefebvre has considerable claims to be the greatest living philosopher. His work spans some sixty years and includes original work on a diverse range of subjects, from dialectical materialism to architecture, urbanism and the experience of everyday

life. The Production of Space is his major philosophical work and its translation has been long awaited by scholars in many different fields. The book is a search for a reconciliation between mental space (the space of the philosophers) and real space (the physical and social spheres in which we all live). In the course of his exploration, Henri Lefebvre moves from metaphysical and ideological considerations of the meaning of space to its experience in the everyday life of home and city. He seeks, in other words, to bridge the gap between the realms of theory and practice, between the mental and the social, and between philosophy and reality. In doing so, he ranges through art, literature, architecture and economics, and further provides a powerful antidote to the sterile and obfuscatory methods and theories characteristic of much recent continental philosophy. This is a work of great vision and incisiveness. It is also characterized by its author's wit and by anecdote, as well as by a deftness of style which Donald Nicholson-Smith's sensitive translation precisely captures.

CATEGORY THEORY IN PHYSICS, MATHEMATICS, AND PHILOSOPHY

Springer Nature The contributions gathered here demonstrate how categorical ontology can provide a basis for linking three important basic sciences: mathematics, physics, and philosophy. Category theory is a new formal ontology that shifts the main focus from objects to processes. The book approaches formal ontology in the original sense put forward by the philosopher Edmund Husserl, namely as a science that deals with entities that can be exemplified in all spheres and domains of reality. It is a dynamic, processual, and non-substantial ontology in which all entities can be treated as transformations, and in which objects are merely the sources and aims of these transformations. Thus, in a rather surprising way, when employed as a formal ontology, category theory can unite seemingly disparate disciplines in contemporary science and the humanities, such as physics, mathematics and philosophy, but also computer and complex systems science.

THE GENEALOGY OF MORALS

Courier Corporation Major work on ethics, by one of the most influential thinkers of the last 2 centuries, deals with master/slave morality and modern man's moral practices; the evolution of man's feelings of guilt; and ascetic ideals.

PRACTICAL ETHICS

Cambridge University Press For thirty years, Peter Singer's Practical Ethics has been the classic introduction to applied ethics. For this third edition, the author has revised and updated all the chapters and added a new chapter addressing climate change, one of the most important ethical challenges of our generation. Some of the questions discussed in this book concern our daily lives. Is it ethical to buy luxuries when others do not have enough to eat? Should we buy meat from intensively reared animals? Am I doing something wrong if my carbon footprint is above the global average? Other questions confront us as concerned citizens: equality and discrimination on the grounds of race or sex; abortion, the use of embryos for research and euthanasia; political violence and terrorism; and the preservation of our planet's environment. This book's lucid style and provocative arguments make it an ideal text for university courses and for anyone willing to think about how she or he ought to live.

CONTEMPORARY NATURAL PHILOSOPHY AND PHILOSOPHIES - PART 1

MDPI Modern information communication technology eradicates barriers of geographic distances, making the world globally interdependent, but this spatial globalization has not eliminated cultural fragmentation. The Two Cultures of C.P. Snow (that of science-technology and that of humanities) are drifting apart even faster than before, and they themselves crumble into increasingly specialized domains. Disintegrated knowledge has become subservient to the competition in technological and economic race leading in the direction chosen not by the reason, intellect, and shared value-based judgement, but rather by the whims of autocratic leaders or fashion controlled by marketers for the purposes of political or economic dominance. If we want to restore the authority of our best available knowledge and democratic values in guiding humanity, first we have to reintegrate scattered domains of human knowledge and values and offer an evolving and diverse vision of common reality unified by sound methodology. This collection of articles responds to the call from the journal Philosophies to build a new, networked world of knowledge with domain specialists from different disciplines interacting and connecting with other knowledge-and-values-producing and knowledge-and-values-consuming communities in an inclusive, extended, contemporary natural-philosophic manner. In this process of synthesis, scientific and philosophical investigations enrich each other—with sciences informing philosophies about the best current knowledge of the world, both natural and human-made—while philosophies scrutinize the ontological, epistemological, and methodological foundations of sciences, providing scientists with questions and conceptual analyses. This is all directed at extending and deepening our existing comprehension of the world, including ourselves, both as humans and as societies, and humankind.

BULLETIN OF THE ATOMIC SCIENTISTS

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.

THE SCIENTIFIC REVOLUTION

University of Chicago Press "There was no such thing as the Scientific Revolution, and this is a book about it." With this provocative and apparently paradoxical claim, Steven Shapin begins his bold, vibrant exploration of the origins of the modern scientific worldview, now updated with a new bibliographic essay featuring the latest scholarship. "An excellent book."—Anthony Gottlieb, *New York Times Book Review* "Timely and highly readable. . . . A book which every scientist curious about our predecessors should read."—Trevor Pinch, *New Scientist* "Shapin's account is informed, nuanced, and articulated with clarity. . . . This is not to attack or devalue science but to reveal its richness as the human endeavor that it most surely is. . . . Shapin's book is an impressive achievement."—David C. Lindberg, *Science* "It's hard to believe that there could be a more accessible, informed or concise account. . . . The Scientific Revolution should be a set text in all the disciplines. And in all the indisdisciplines, too."—Adam Phillips, *London Review of Books*

TWO TREATISES OF GOVERNMENT

Two Treatises of Government by John Locke. Suggested reading for Randolph High School Summer Reading.

OXFORD STUDIES IN POLITICAL PHILOSOPHY

Oxford University Press This is the inaugural volume of 'Oxford Studies in Political Philosophy'. The series aims to publish some of the best contemporary work in the vibrant field of political philosophy and its closely related subfields, including jurisprudence, normative economics, political theory in political science departments, and just war theory.

PAPERS IN METAPHYSICS AND EPISTEMOLOGY: VOLUME 2

Cambridge University Press This second volume of papers is devoted to Lewis's work in metaphysics and epistemology.

AGAINST METHOD

Verso Modern philosophy of science has paid great attention to the understanding of scientific 'practice', in contrast to concentration on scientific 'method'. Paul Feyerabend's acclaimed work, which has contributed greatly to this new emphasis, shows the deficiencies of some widespread ideas about the nature of knowledge. He argues that the only feasible explanations of scientific successes are historical explanations, and that anarchism must now replace rationalism in the theory of knowledge. The third edition of this classic text contains a new preface and additional reflections at various points in which the author takes account both of recent debates on science and on the impact of scientific products and practices on the human community. While disavowing populism or relativism, Feyerabend continues to insist that the voice of the inexpert must be heard. Thus many environmental perils were first identified by non-experts against prevailing assumptions in the scientific community. Feyerabend's challenging reassessment of scientific claims and understandings are as pungent and timely as ever.

THE OXFORD HISTORY OF THE IRISH BOOK, VOLUME IV

THE IRISH BOOK IN ENGLISH, 1800-1891

Oxford University Press on Demand Includes bibliographical references (p. [612]-702) and index.

A HISTORY OF NATURAL PHILOSOPHY

FROM THE ANCIENT WORLD TO THE NINETEENTH CENTURY

Cambridge University Press This book describes how natural philosophy and exact mathematical sciences joined together to make the Scientific Revolution possible.

HUMAN, ALL TOO HUMAN

A BOOK FOR FREE SPIRITS

THE ALICE BOOKS AND THE CONTESTED GROUND OF THE NATURAL WORLD

Routledge Though popular opinion would have us see Alice's Adventures in Wonderland and Through the Looking Glass and What Alice Found There as whimsical, nonsensical, and thoroughly enjoyable stories told mostly for children; contemporary research has shown us there is a vastly greater depth to the stories than would be seen at first glance. Building on the now popular idea amongst Alice enthusiasts, that the Alice books - at heart - were intended for adults as well as children, Laura White takes current research in a new, fascinating direction. During the Victorian era of the book's original publication, ideas about nature and our relation to nature were changing drastically. The Alice Books and the Contested Ground of the Natural World argues that Lewis Carroll used the book's charm, wit, and often puzzling conclusions to counter the emerging tendencies of the time which favored Darwinism and theories of evolution and challenged the then-conventional thinking of the relationship between mankind and nature. Though a scientist and ardent student of nature himself, Carroll used his famously playful language, fantastic worlds and brilliant, often impossible characters to support more the traditional, Christian ideology of the time in which mankind holds absolute sovereignty over animals and nature.

SIR ISAAC NEWTON'S MATHEMATICAL PRINCIPLES OF NATURAL PHILOSOPHY AND HIS SYSTEM OF THE WORLD

Univ of California Press I consider philosophy rather than arts and write not concerning manual but natural powers, and consider chiefly those things which relate to gravity, levity, elastic force, the resistance of fluids, and the like forces, whether attractive or impulsive; and therefore I offer this work as the mathematical principles of philosophy. In the third book I give an example of this in the explication of the System of the World. I derive from celestial phenomena the forces of gravity with which bodies tend to the sun and other planets.