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In the fall of 1950, newspapers around the world reported that the Italian-born nuclear physicist Bruno Pontecorvo and his family had mysteriously disappeared while returning to Britain from a holiday trip. Because Pontecorvo was known to be an expert working for the UK Atomic Energy Research Establishment, this raised immediate concern for the safety of atomic secrets, especially when it became known in the following months that he had defected to the Soviet Union. Was Pontecorvo a spy? Did he know and pass sensitive information about the bomb to Soviet experts? At the time, nuclear scientists, security personnel, Western government officials, and journalists assessed the case, but their efforts were inconclusive and speculations quickly turned to silence. In the years since, some have downplayed Pontecorvo’s knowledge of atomic weaponry, while others have claimed him as part of a spy ring that infiltrated the Manhattan Project. The Pontecorvo Affair draws from newly disclosed sources to challenge previous attempts to solve the case, offering a balanced and well-documented account of Pontecorvo, his activities, and his possible motivations for defecting. Along the way, Simone Turchetti reconsiders the place of nuclear

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physics and nuclear physicists in the twentieth century and reveals that as the discipline's promise of military and industrial uses came to the fore, so did the enforcement of new secrecy provisions on the few experts in the world specializing in its application.

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"Nuclear Physics" deals with Bohr's work on nuclear physics which began in the pre-1932 days with his thinking deeply, but inconclusively about the seeming contradictions then presented by the evidence about the nucleus. In 1936, Bohr recognised and described the insights provided by neutron scattering experiments; the excitement of this new understanding and its extension and consolidation occupied much of the subsequent years. In 1939, he was again first in understanding the essential features of the newly discovered phenomenon of fission, applying successfully the point of view of nuclear reactions which he had developed over the past three years. Later, in 1949-50, he was impressed by the success of the nuclear shell model, which on the face of it seemed hard to reconcile with the picture of the closely interacting nucleons which he

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had pioneered in 1936. Bohr put much effort into clarifying this paradox.

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This unique volume summarizes with a historical perspective several of the major scientific achievements of Ludwig Faddeev, with a foreword by Nobel Laureate C N Yang. The volume that spans over fifty years of Faddeev's career begins where he started his own scientific research, in the subject of scattering theory and the three-body problem. It then continues to describe Faddeev's contributions to automorphic functions, followed by an extensive account of his many fundamental contributions to quantum field theory including his original article on ghosts with Popov. Faddeev's contributions to soliton theory and integrable models are then described, followed by a survey of his work on quantum groups. The final scientific section is devoted to Faddeev's contemporary research including articles on his long-term

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interest in constructing knotted solitons and understanding confinement. The volume concludes with his personal view on science and mathematical physics in particular.

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Physics and Chemistry of the Solar System focuses on planetary physics and chemistry. This book consists of 12 chapters. Chapters I to IV cover the general properties and environment of the planetary system. The solar system beyond Mars is elaborated in Chapters V to VIII, while the inner solar system is considered in Chapters XI to XII. In these chapters, this compilation specifically discusses the limitations on big bang nucleosynthesis; structure and classification of galaxies; and mass and angular momentum distribution. The radio wave propagation in space plasmas; interiors of Jupiter and Saturn; density and composition of icy satellites; and evaporation and non-gravitational forces are also deliberated. This text also explains the physical properties of meteorites; geology of the Moon; geophysical data on Mars; and search for extraterrestrial intelligence. This

publication is a good reference for first-year graduate students who intend to take graduate courses in specialized areas of planetary sciences, as well as practicing Ph.D. scientists with training in physics, chemistry, geology, astronomy, meteorology, and biology.

Fifty Years of Mathematical Physics

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For cracking any competitive exam one need to have clear guidance, right kind of study material and thorough practice. When the preparation is done for the

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Electrostatics II (Capacitance), Current Electricity, Current and Electricity II, Moving Charges and Magnetism, Magnetism and Matter, Electromagnetic Induction, Alternating Current, Electromagnetic Waves, Ray Optics, Wave Optics, Dual Nature of Radiation & Matter, Atoms and Nuclei, Semiconductor Devices, Communication System, Questions Asked in JEE Main 2015, Solved Papers 2016 (JEE Main, BITSAT, AP EAMCET, TS EAMCET, GGSIPU), Solved Papers 2017 (JEE Main & Advanced, BITSAT, VIT & WBJEE), Solved Papers 2018 (JEE Main & Advanced, BITSAT, WBJEE & KCET), Solved Papers 2019 (JEE Main & Advanced, BITSAT & WBJEE).

The Golden Age of Theoretical Physics brings together 37 selected essays. Many of these essays were first presented as lectures at various universities in Europe and the USA, and then published as reports or articles. Their enlarged, final versions were published in the joint work of Jagdish Mehra and Helmut Rechenberg, *The Historical Development of Quantum Theory*, while the other essays were published as articles in scientific journals or in edited books. Here they are published together as a tribute to the Mehra-Rechenberg collaboration sustained for several decades, and cover various aspects of quantum theory, the special and general theories of relativity, the foundations of statistical mechanics, and some of their fundamental applications. Two

essays, ‘ Albert Einstein's “ First ” Paper ’ (Essay 1) and ‘ The Dream of Leonardo da Vinci ’ (Essay 37), lie outside the major themes treated in this book, but are included here because of their historical interest. The origin of each essay is explained in a footnote. This book deals with the most important themes developed in the first 40 years of the twentieth century by some of the greatest pioneers and architects of modern physics. It is a vital source of information about what can veritably be described as ‘ the golden age of theoretical physics ’ .

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Elements of Early Modern Physics comprises the two long introductory chapters of J. L. Heilbron's monumental work *Electricity in the 17th and 18th Centuries: A Study of Early Modern Physics* plus a concluding summary of the remaining chapters. Heilbron opens with a presentation of the general principles of physical theory and a description of the institutional frameworks in which physics were cultivated in the seventeenth and eighteenth centuries. He argues that the single most important contributor to physics in the seventeenth century was the Catholic Church. In the first half of the eighteenth century, Cartesian and Newtonian physicists disagreed over principles but thought in similar terms and cultivated the same sort of qualitative natural philosophy. Work towards an exact physics, which took on important dimensions after 1770, confounded the programs of both. Heilbron shows that by attending too closely to the Copernican revolution and the confrontation of great philosophical systems, historians have seriously misjudged the character of early modern science. This title is part of UC Press's Voices Revived program, which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in

1982.

Physics and Chemistry of the Solar System is a broad survey of the Solar System. The book discusses the general properties and environment of our planetary system, including the astronomical perspective, the general description of the solar system and of the sun and the solar nebula). The text also describes the solar system beyond mars, including the major planets; pluto and the icy satellites of the outer planets; the comets and meteors; and the meteorites and asteroids. The inner solar system, including the airless rocky bodies; mars, venus, and earth; and planets and life about other stars, is also encompassed. Mathematicians, chemists, physicists, geologists, astronomers, meteorologists, and biologists will find the book useful.

Adventures in Theoretical Physics

Progress in Solar Physics

Physics and Chemistry of the Solar System

The English Catalogue of Books [annual]

The Pontecorvo Affair

Modern physical science is constituted by specialized scientific fields rooted in experimental laboratory work and in rational and mathematical representations. Contemporary scientific explanation is rigorously differentiated from religious

interpretation, although, to be sure, scientists sometimes do the philosophical work of interpreting the metaphysics of space, time, and matter. However, it is rare that either theologians or philosophers convincingly claim that they are doing the scientific work of physical scientists and mathematicians. The rigidity of these divisions and differentiations is relatively new. Modern physical science was invented slowly and gradually through interactions of the aims and contents of mathematics, theology, and natural philosophy since the seventeenth century. In essays ranging in focus from seventeenth-century interpretations of heavenly comets to twentieth-century explanations of tracks in bubble chambers, ten historians of science demonstrate metaphysical and theological threads continuing to underpin the epistemology and practice of the physical sciences and mathematics, even while they became disciplinary specialties during the last three centuries. The volume is prefaced by tributes to Erwin N. Hiebert, whose teaching and scholarship have addressed and inspired attention to these issues.

Restructuring Of Physical Sciences In Europe And The United

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