

Theoretical Physics Georg Joos

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among the finest most comprehensive treatments of theoretical physics ever written this classic volume comprises a superb introduction to the main branches of the discipline and offers solid grounding for further research in a variety of fields students will find no better one volume coverage of so many essential topics moreover since its first publication the book has been substantially revised and updated with additional material on bessel functions spherical harmonics superconductivity elastomers and other subjects the first four chapters review mathematical topics needed by theoretical and experimental physicists vector analysis mathematical representation of periodic phenomena theory of vibrations and waves theory of functions of a complex variable the calculus of variations and more this material is followed by exhaustive coverage of mechanics including elasticity and fluid mechanics as well as relativistic mechanics a highly detailed treatment of electromagnetic theory and thorough discussions of thermodynamics kinetic theory and statistical mechanics quantum mechanics and nuclear physics now available for the first time in paperback this wide ranging overview also contains an extensive 40 page appendix which provides detailed solutions to the numerous exercises included throughout the text although first published over 50 years ago the book remains a solid comprehensive survey so well written and carefully planned that undergraduates as well as graduate students of theoretical and experimental physics will find it an indispensable reference they will turn to again and again

this concise introduction is geared toward those concerned with solid state or low temperature physics it presents the principles with simplicity and clarity reviewing issues of critical interest 1963 edition

practical text focuses on fundamental applied math needed to deal with physics and engineering problems elementary vector calculus special functions of mathematical physics calculus of variations much more 1968 edition

comprehensive and accessible this foundational text surveys general principles of sound musical scales characteristics of instruments mechanical and electronic recording devices and many other topics more than 300 illustrations plus questions problems and projects

1 aim and general description of the anthology the purpose of this anthology is to introduce the english speaking public to the wide spectrum of texts authored predominantly by physicists portraying the actual and perceived role of physics in the nazi state up to now no broad and well balanced documentation of german physics during this time has been available in english despite the significant role physics has played both politically e g in weaponry planning and ideologically e g in the controversy over the value of theoretical jewish vs experimental aryan physics and even though prominent figures like the scientist philosopher and emigre albert einstein and the controversial nuclear physicist werner heisenberg have become household names this anthology will attempt to bridge this gap by presenting contemporary documents and eye witness accounts by the physicists themselves authors were chosen to represent the various political opinions and specialties within the physics community omitting some of the more readily accessible texts by leading physicists e g einstein heisenberg lenard in favor of those by less well known but nonetheless important figures e g finkelnburg max wien ramsauer in this way we hope not only to circumvent the constricted great men approach to history but also to offer a broader picture of the activities and conflicts within the field and the effects of the political forces exerted upon them

a classic work by two leading physicists and scientific educators endures as an uncommonly clear and cogent investigation and

correlation of key aspects of theoretical nuclear physics it is probably the most widely adopted book on the subject the authors approach the subject as the theoretical concepts methods and considerations which have been devised in order to interpret the experimental material and to advance our ability to predict and control nuclear phenomena the present volume does not pretend to cover all aspects of theoretical nuclear physics its coverage is restricted to phenomena involving energies below about 50 mev a region sometimes called classical nuclear physics topics include studies of the nucleus nuclear forces nuclear spectroscopy and two three and four body problems as well as explorations of nuclear reactions beta decay and nuclear shell structure the authors have designed the book for the experimental physicist working in nuclear physics or graduate students who have had at least a one term course in quantum mechanics and who know the essential concepts and problems of nuclear physics

this is the inside story of one of the earliest successful u s satellites a fascinating cold war era chronicle of the nation s earliest battles and triumphs in the space race it recounts the origins development and results of project vanguard a pioneering venture in the exploration of outer space primarily an analysis of the project s scientific and technical challenges this volume documents onboard experiments instrumentation tracking systems and test firings it also portrays the drama of organizing an unprecedented project under the pressure of a strict time limit as well as the tempestuous climate of american opinion during the soviet union s sputnik launches the history concludes with an evaluation of the satellite program s significant contributions to scientific knowledge numerous historic photographs highlight the text which is written in accessible nontechnical language in addition to a historic foreword by charles a lindbergh this new edition features an informative introduction by paul dickson authoritative and inexpensive it will appeal to students and teachers of history and science as well as aviation enthusiasts

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