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A Student's Guide Through the Great Physics Texts 1993-04-08 this book provides a chronological introduction to modern atomic theory which represented an attempt to reconcile the ancient doctrine of atomism with careful experiments performed during the 19th century on the flow of heat through substances and across empty space included herein are selections from classic texts such as carnot s reflection on the motive power of fire clausius mechanical theory of heat rutherford s nuclear constitution of atoms planck s atomic theory of matter and heisenberg s copenhagen interpretation of quantum theory each chapter begins with a short introduction followed by a reading selection carefully crafted study questions draw out key points in the text and focus the reader s attention on the author s methods analysis and conclusions numerical and laboratory exercises at the end of each chapter test the reader s ability to understand and apply key concepts from the text heat radiation and quanta is the last of four volumes in a student s guide through the great physics texts the book comes from a four semester undergraduate physics curriculum designed to encourage a critical and circumspect approach to natural science while at the same time preparing students for advanced coursework in physics this book is particularly suitable as a college level textbook for students of the natural sciences history or philosophy it might also serve as a textbook for advanced high school or home schooled students or as a thematically organized source book for scholars and motivated lay readers in studying the classic scientific texts included herein the reader will be drawn toward a lifetime of contemplation

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Laser Manipulation of Atoms and Ions 2004 the recent fascinating progress on laser cooling is the result of the close connection between theoretical work and the rapid technological advances in laser sources particularly in the field of powerful semiconductor and solid state lasers operating over a wide range of optical and near infrared frequencies the very close international and personal collaboration amongst the researchers resulting in a direct link between experimental data and theoretical

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Cinema's Military Industrial Complex 2023-02-09 the vast and influential american military has been aided and abetted by cinema since the earliest days of the medium the army navy and air force put films to work in myriad ways enlisting them to entertain train and heal soldiers as well as to propagandize strategize spy map and develop weapons from rifles to atomic bombs presenting new essays based on archival research cinema s military industrial complex addresses the relationship of military cinema to hollywood technological innovation new modes of filmmaking unique film styles and genres and the rise of american soft power across the long twentieth century this rich and timely volume is essential for scholars interested in the military s use of media and the exercise of influence within and beyond american borders

Long Baseline Atom Interferometry 2004-12-15 due to its impressive sensitivity long baseline atom interferometry is an exciting tool for tests of fundamental physics we are currently constructing a 10 meter scale apparatus to test the weak equivalence principle wep using co located rb85 and rb87 atom interferometers this apparatus aims to improve the current limit on wep violation 100 fold which illustrates the power of this technique this scientific goal sets stringent requirements on the kinematic preparation of the atomic test masses the interferometer laser wavefront and stability as well as the electromagnetic and gravitational field homogeneity of the interferometer region the efforts to control these sources of systematic error are discussed additionally applications of long baseline atom interferometry to space based sensors for geodesy and gravitational wave detection are presented

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