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Theoretical Physics and Astrophysics V.L. Ginzburg, 2013-10-22 The aim of this book is to present on the one hand various topics in theoretical physics in depth especially topics related to electrodynamics and on the other hand to show how these topics find applications in various aspects of astrophysics The first text on theoretical physics and astrophysical

applications it covers many recent advances including those in X ray ray and radio astronomy with comprehensive coverage of the literature

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Particle Detectors Hermann Kolanoski, Norbert Wermes, 2020-06-30 This book describes the fundamentals of particle detectors as well as their applications Detector development is an important part of nuclear particle and astroparticle physics and through its applications in radiation imaging it paves the way for advancements in the biomedical and materials sciences Knowledge in detector physics is one of the required skills of an experimental physicist in these fields The breadth of knowledge required for detector development comprises many areas of physics and technology starting from interactions of particles with matter gas and solid state physics over charge transport and signal development to elements of microelectronics The book s aim is to describe the fundamentals of detectors and their different variants and implementations as clearly as possible and as deeply as needed for a thorough understanding While this comprehensive opus contains all the materials taught in experimental particle physics

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