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Nota di contenuto	CP, T, and CPT Symmetries -- CP Violation in the K 0 System -- Flavour Oscillation and CP Violation of B Mesons -- CP Asymmetries in Neutral Kaon and Beon Decays -- Time Reversal Invariance in Nuclear Physics: From Neutrons to Stochastic Systems -- CP Violation and Baryogenesis -- Physics Beyond the Standard Model.
Sommario/riassunto	This book provides a collection of up-to-date lectures on the physics of CP violation. As such it covers all relevant modern fields of elementary particle, nuclear and astrophysics. Special attention is paid to the neutral meson systems and the recent confirmation of CP violation in the B meson system. The theory and the novel methods needed for these experiments are given in detail. The classical and ongoing searches for the electric dipole moment of the neutron and other null tests of time-reversal symmetry are included. An elementary introduction is given to the astrophysical implications of CP violation, to tackle the puzzle of matter--antimatter asymmetry in our Universe. The aim of the book is to present recent achievements and discuss future developments in a way accessible to both postgraduate students and nonspecialist researchers. For the experienced researcher, the book will serve as a modern source of reference on this topic.