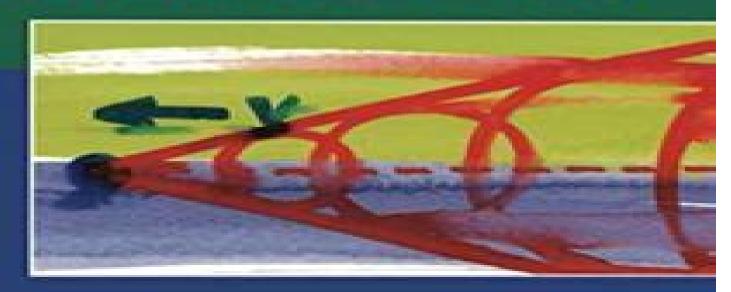
# CLASSICAL THEORETICAL PHYSICS



Greiner

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Spezielle Relativit tstheorie f r Studienanf nger offers access to the special theory of relativity for readers with a background in mathematics and physics comparable to a high school honors degree All mathematical and physical competence required beyond that level is gradually developed through the book as more advanced topics are introduced. The full tensor formalism however is dispensed with as it would only be a burden for the problems to be dealt with Eventually a substantial and comprehensive treatise on special relativity emerges which with its gray shaded formulary is an invaluable reference manual for students and scientists alike Some crucial results are derived more than once with different approaches the Lorentz transformation in one spatial direction three times the Doppler formula four times the Lorentz transformation in two directions twice also twice the unification of electric and magnetic forces the velocity addition formula as well as the aberration formula Beginners will be grateful to find several routes to the goal moreover for a theory like relativity it is of fundamental importance to demonstrate that it is self contained and without contradictions Author's website www relativity Metric Theories of Gravity Alexander N. Petrov, Sergei M. Kopeikin, Robert R. Lompay, Bayram Tekin, 2017-04-24 By focusing on the mostly used variational methods this monograph aspires to give a unified description and comparison of various ways of constructing conserved quantities for perturbations and to study symmetries in general relativity and modified theories of gravity The main emphasis lies on the field theoretical covariant formulation of perturbations the canonical Noether approach and the Belinfante procedure of symmetrisation The general formalism is applied to build the gauge invariant cosmological perturbation theory conserved currents and superpotentials to describe physically important solutions of gravity theories Meticulous attention is given to the construction of conserved quantities in asymptotically flat spacetimes as well as in asymptotically constant curvature spacetimes such as the Anti de Sitter space Significant part of the book can be used in graduate courses on conservation laws in general relativity THE SERIES DE GRUYTER STUDIES IN MATHEMATICAL PHYSICS The series is devoted to the publication of monographs and high level texts in mathematical physics They cover topics and methods in fields of current interest with an emphasis on didactical presentation The series will enable readers to understand apply and develop further with sufficient rigor mathematical methods to given problems in physics The works in this series are aimed at advanced students and researchers in mathematical and theoretical physics They can also serve as secondary reading for lectures and seminars at advanced levels

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