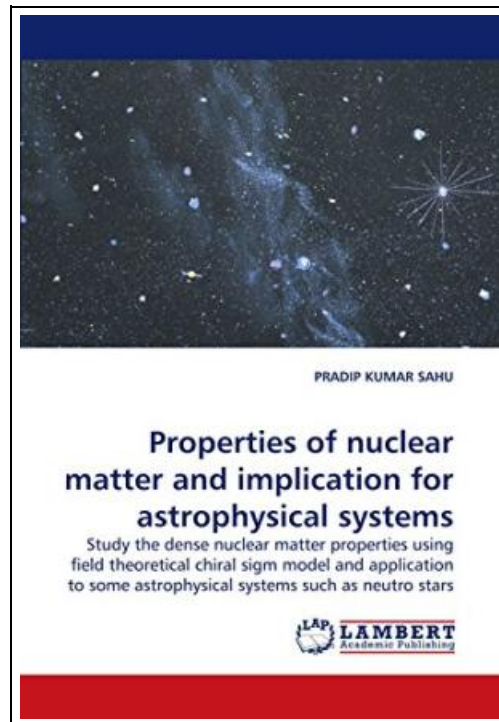


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LAP Lambert Acad. Publ. Nov 2009, 2009. Taschenbuch. Condition: Neu. Neuware - This book is very useful for undergraduate scholars, because it gives a good, detailed overview of early works on equation of states at high density nuclear matter. Then this book deals the properties of dense nuclear matter using relativistic field theoretical approach. A detailed study of the chiral sigma model based on mean field theory is done and it is used to derive an equation of state of asymmetric nuclear matter, because, the chiral symmetry seems to possess such a desirable property at high densities. The calculation of this model is extended to finite temperature and is examined it in the context of the question of a possible phase transition from hadronic matter to quark matter at high densities. Then certain astrophysical applications of this model are considered. These are the modeling of stable neutron star structure, radial oscillations of quark stars and cooling rates of neutron stars, if these objects possess (u, d, s) quark matter in their cores. The structure of neutron stars, quark stars and quark star oscillations are discussed. The limitation of previously suggested neutrino emissivity formula for the quark matter in the neutron stars is also discussed. 152 pp. Englisch.



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