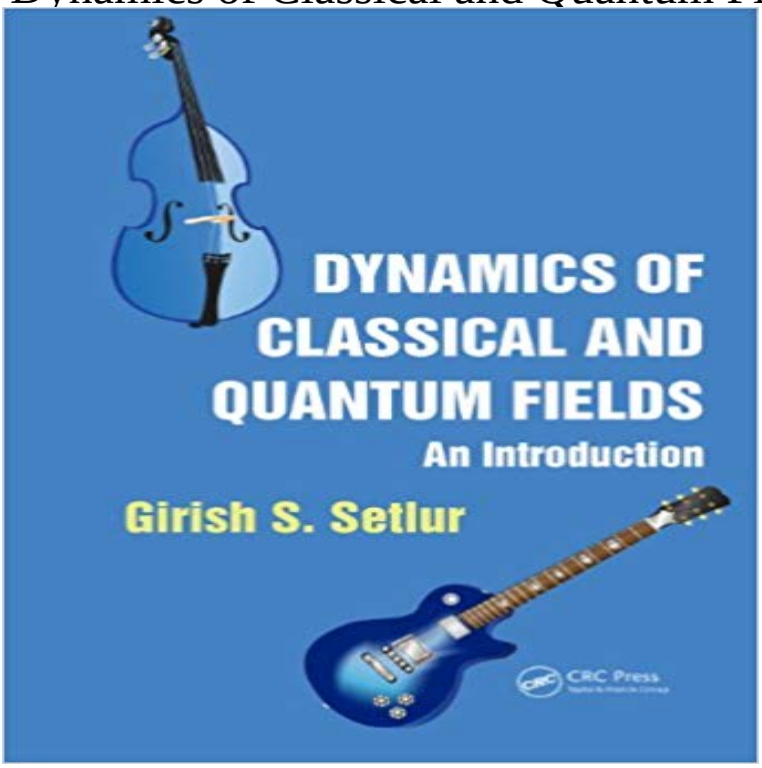
Dynamics of Classical and Quantum Fields: An Introduction



Dynamics of Classical and Quantum Fields: An Introduction focuses on dynamical fields in non-relativistic physics. Written by a physicist for physicists, the book is designed to help readers develop analytical skills related to classical and quantum fields at the non-relativistic level, and think about the concepts and theory through numerous problems. In-depth yet accessible, the book presents new and conventional topics in a self-contained manner that beginners would find useful. A partial list of topics covered includes:?Geometrical meaning of Legendre transformation in classical mechanicsDynamical symmetries in the context of Noethers theoremThe derivation of the stress energy tensor of the electromagnetic field, the expression for strain energy in elastic bodies, and the Navier Stokes equationConcepts of right and left movers in case of a Fermi gas explainedFunctional integration is interpreted as a limit of a sequence of ordinary integrationsPath integrals for one and two quantum particles and for a fermion in presence of a filled Fermi seaFermion and boson Fock spaces, along with operators that create and annihilate particlesCoherent state path integralsMany-body topics such as Schrieffer Wolff transformation, Matsubara, and Keldysh Green functionsGeometrical meaning of the vortex-vortex correlation function in a charged boson fluidNonlocal particle-hole creation operators which diagonalize interacting many-body systemsThe equal mix of novel and traditional topics, use of fresh examples to illustrate conventional concepts, and large number of worked examples make this book ideal for an intensive one-semester course for beginning Ph.D. students. It is also a challenging and thought provoking book for motivated advanced undergraduates.

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