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this is a practical introduction to the principal ideas in gauge theory and their applications to
elementary particle physics it explains technique and methodology with simple exposition
backed up by many illustrative examples derivations some of well known results are presented
in sufficient detail to make the text accessible to readers entering the field for the first time the

book focuses on the strong interaction theory of quantum chromodynamics and the electroweak interaction theory of glashow weinberg and salam as well as the grand unification theory exemplified by the simplest su 5 model not intended as an exhaustive survey the book nevertheless provides the general background necessary for a serious student who wishes to specialize in the field of elementary particle theory physicists with an interest in general aspects of gauge theory will also find the book highly useful

the book comprises a broad panorama of phenomena occurring in four major classes of radiophysical and mechanical systems linear nonlinear parametric and nonlinear parametric an analytical technique for the broad circle of issues under consideration is developed it is presented in a user friendly form allowing its further direct application in research practices analytical methods are presented for investigating modulation parametric and nonlinear systems oscillating systems with periodic and almost periodic time dependent parameters effects of adaptive self organization in coupled resonance systems and oscillating systems under the action of external forces nonlinear with respect to the coordinates of excited systems of an interdisciplinary nature this volume can serve as a handbook for developing lecture courses such as fundamentals of nonlinear dynamics and theory of nonlinear oscillations theory of nonlinear circuits and systems fundamentals of radiophysics and electronics theory of signals and theoretical radiophysics theoretical mechanics and electrodynamics

unlike existing texts this book blends for the first time three topics in physics symmetry condensed matter physics and computational methods into one pedagogical textbook it includes new concepts in mathematical crystallography experimental methods capitalizing on symmetry aspects non conventional applications such as fourier crystallography color groups quasicrystals and incommensurate systems as well as concepts and techniques behind the landau theory of phase transitions adopting a computational approach to the application of group theoretical techniques to solving symmetry related problems it dramatically alleviates the need for intensive calculations usually found in the presentation of symmetry writing computer programs helps the student achieve a firm understanding of the underlying concepts and sample programs based on mathematica are presented throughout the book containing over 150 exercises this textbook is ideal for graduate students in condensed matter physics materials science and chemistry solutions and computer programs are available online at cambridge.org/9780521828451

this book provides a concise description of the current status of a fascinating scientific problem the inverse variational problem in classical mechanics the essence of this problem is as follows one is given a set of equations of motion describing a certain classical mechanical system and the question to be answered is do these equations of motion correspond to some lagrange

function as its euler lagrange equations in general not for every system of equations of motion does a lagrange function exist it can however happen that one may modify the given equations of motion in such a way that they yield the same set of solutions as the original ones and they correspond already to a lagrange function moreover there can even be infinitely many such lagrange functions the relations among which are not trivial the book deals with this scope of problems no advanced mathematical methods such as contemporary differential geometry are used the intention is to meet the standard educational level of a broad group of physicists and mathematicians the book is well suited for use as lecture notes in a university course for physicists

categorical variables in developmental research provides developmental researchers with the basic tools for understanding how to utilize categorical variables in their data analysis covering the measurement of individual differences in growth rates the measurement of stage transitions latent class and log linear models chi square and more the book provides a means for developmental researchers to make use of categorical data measurement and repeated observations of categorical data catastrophe theory latent class and log linear models applications

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