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Statistical Physics and Economics

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Statistical Physics And Economics Concepts Tools And Applications

Michael Schulz



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attention is given to the interplay between experimental results and their theoretical description ranging from the famous Lee Yang theory of phase transitions to novel mechanisms of exchange bias From Galileo to Modern Economics Gianfranco Tusset, 2018-09-08 Empirical laws are rare in economics This book describes efforts to anchor economic knowledge to invariant empirical laws It links 17th and 18th century Galilean monetary economists to econophysics a field that emerged in the mid 1990s This virtual journey from past to present is charted by episodes on aggregates and empirical primacy It includes the virtually unknown story of 19th century scholars who by searching for a stricter mathematical approach paved the way to an engineering view of economics Then there are celebrities like Pareto and his first empirical law governing the distribution of wealth Pareto and Amoroso sparked a debate on the skewed distribution that spanned decades ranging from finance to market transformations to econophysics with its concepts and tools inherited from statistical physics The last stage of the journey goes through econophysics and the recent gradual advances it has made which show how its position vis vis economics has been changing Effective Field Theories in Flavour Physics Thomas Mannel, 2004-11-26 The book constitutes a compact review of the applications of effective field theory methods in flavour physics with emphasis on heavy quark physics Some of the relevant applications are discussed to illustrate the method It covers the full range of theoretical tools related to the application of the effective field theory idea Starting from the weak interactions as an effective theory derived from the standard model well established methods such as heavy quark effective theory the heavy quark mass expansion and chiral perturbation theory are addressed Also more recent ideas such as QCD factorization and soft collinear effective theory are outlined Finally the standard model itself is viewed as an effective theory allowing a model independent look at the results of the new physics The book should be useful for the advanced graduate student as well as for scientists who are interested in the theoretical toolkit used in the context of flavour physics It is not meant as a complete review of the subject rather it should be useful as an introduction to the basic ideas *Parallel Processing and Applied Mathematics, Part I* Roman Wyrzykowski, Jack Dongarra, Konrad Karczewski, Jerzy Wasniewski, 2010-07-07 Annotation This book constitutes the proceedings of the 8th International Conference on Parallel Processing and Applied Mathematics PPAM 2009 held in Wroclaw Poland in September 2009 **Free Surface Flows under Compensated Gravity Conditions** Michael Dreyer, 2007-04-17 This book considers the behavior of fluids in a low gravity environment e g spacecraft with special emphasis on application in PMD propellant management device systems Since PMD designs are not testable on ground and thus completely rely on analytical or numerical concepts this book treats three different flow problems with analytical numerical and experimental means These problems are linked together by the same set of equations and boundary conditions *Theory of the Muon Anomalous Magnetic Moment* Kirill Melnikov, Arkady Vainshtein, 2007-01-09 The theory of the muon anomalous magnetic moment is particle physics in a nutshell It is an interesting exciting and difficult subject and this book provides a comprehensive review of it The theory of the muon

anomalous magnetic moment is at the cutting edge of current research in particle physics and any deviation between the theoretical prediction and the experimental value might be interpreted as a signal of an as yet unknown new physics

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