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Scaling and Self-Similarity in Physics Renormalization in Statistical Mechanics and Dynamics

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Masaki Kashiwara, Tetsuji Miwa

Scaling and Self-Similarity in Physics FRÖHLICH, 2013-12-14 Scaling, Self-similarity, and Intermediate **Asymptotics** G. I. Barenblatt, 1996-12-12 Scaling laws reveal the fundamental property of phenomena namely self similarity repeating in time and or space which substantially simplifies the mathematical modelling of the phenomena themselves This book begins from a non traditional exposition of dimensional analysis physical similarity theory and general theory of scaling phenomena using classical examples to demonstrate that the onset of scaling is not until the influence of initial and or boundary conditions has disappeared but when the system is still far from equilibrium Numerous examples from a diverse range of fields including theoretical biology fracture mechanics atmospheric and oceanic phenomena and flame propagation are presented for which the ideas of scaling intermediate asymptotics self similarity and renormalisation were of decisive value in modelling Homogenization of Partial Differential Equations Vladimir A. Marchenko, Evgueni Ya. Khruslov, 2008-12-22 Homogenization is a method for modeling processes in microinhomogeneous media which are encountered in radiophysics filtration theory rheology elasticity theory and other domains of mechanics physics and technology These processes are described by PDEs with rapidly oscillating coefficients or boundary value problems in domains with complex microstructure From the technical point of view given the complexity of these processes the best techniques to solve a wide variety of problems involve constructing appropriate macroscopic homogenized models The present monograph is a comprehensive study of homogenized problems based on the asymptotic analysis of boundary value problems as the characteristic scales of the microstructure decrease to zero The work focuses on the construction of nonstandard models non local models multicomponent models and models with memory Along with complete proofs of all main results numerous examples of typical structures of microinhomogeneous media with their corresponding homogenized models are provided Graduate students applied mathematicians physicists and engineers will benefit from this monograph which may be used in the classroom or as a comprehensive reference text A Geometric Approach to Thermomechanics of Dissipating Continua Lalao Rakotomanana, 2012-09-08 Across the centuries the development and growth of mathematical concepts have been strongly stimulated by the needs of mechanics Vector algebra was developed to describe the equilibrium of force systems and originated from Stevin's experiments 1548 1620 Vector analysis was then introduced to study velocity fields and force fields Classical dynamics required the differential calculus developed by Newton 1687 Nevertheless the concept of particle acceleration was the starting point for introducing a structured spacetime Instantaneous velocity involved the set of particle positions in space Vector algebra theory was not sufficient to compare the different velocities of a particle in the course of time There was a need to parallel transport these velocities at a single point before any vector algebraic operation The appropriate mathematical structure for this transport was the connection I The Euclidean connection derived from the metric tensor of the referential body was the only connection used in mechanics for over two centuries Then major

steps in the evolution of spacetime concepts were made by Einstein in 1905 special relativity and 1915 general relativity by using Riemannian connection Slightly later nonrelativistic spacetime which includes the main features of general relativity I It took about one and a half centuries for connection theory to be accepted as an independent theory in mathematics Major steps for the connection concept are attributed to a series of findings Riemann 1854 Christoffel 1869 Ricci 1888 Levi Civita An Invitation to Fractal Geometry Michel L. Lapidus, Goran 1917 Weyl 1918 Cartan 1923 Eshermann 1950 Radunović.2024-12-30 This book offers a comprehensive exploration of fractal dimensions self similarity and fractal curves Aimed at undergraduate and graduate students postdocs mathematicians and scientists across disciplines this text requires minimal prerequisites beyond a solid foundation in undergraduate mathematics While fractal geometry may seem esoteric this book demystifies it by providing a thorough introduction to its mathematical underpinnings and applications Complete proofs are provided for most of the key results and exercises of different levels of difficulty are proposed throughout the book Key topics covered include the Hausdorff metric Hausdorff measure and fractal dimensions such as Hausdorff and Minkowski dimensions The text meticulously constructs and analyzes Hausdorff measure offering readers a deep understanding of its properties Through emblematic examples like the Cantor set the Sierpinski gasket the Koch snowflake curve and the Weierstrass curve readers are introduced to self similar sets and their construction via the iteration of contraction mappings The book also sets the stage for the advanced theory of complex dimensions and fractal drums by gently introducing it via a variety of classical examples including well known fractal curves By intertwining historical context with rigorous mathematical exposition this book serves as both a stand alone resource and a gateway to deeper explorations in fractal The Relativistic Boltzmann Equation: Theory and Applications Carlo Cercignani, Gilberto M. geometry Kremer, 2012-12-06 The aim of this book is to present the theory and applications of the relativistic Boltzmann equation in a self contained manner even for those readers who have no familiarity with special and general relativity Though an attempt is made to present the basic concepts in a complete fashion the style of presentation is chosen to be appealing to readers who want to understand how kinetic theory is used for explicit calculations The book will be helpful not only as a textbook for an advanced course on relativistic kinetic theory but also as a reference for physicists astrophysicists and applied mathematicians who are interested in the theory and applications of the relativistic Boltzmann equation The Kepler Problem Bruno Cordani, 2003 Accompanying CD ROM contains Microsoft Windows program Kepler which calculates the effects of any perturbation of the Kepler problem and plots the resulting trajectories Percolation Theory and Ergodic Theory of Infinite Particle Systems Harry Kesten, 2012-12-06 This IMA Volume in athematics and its Applications PERCOLATION THEORY AND ERGODIC THEORY OF INFINITE PARTICLE SYSTEMS represents the proceedings of a workshop which was an integral part of the 19R4 85 IMA program on STOCHASTIC DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS We are grateful to the Scientific Committee naniel Stroock Chairman Wendell Fleming Theodore

Harris Pierre Louis Lions Steven Orey George Papanicolaoo for planning and implementing an exciting and stimulating year long program We especially thank the Workshop Organizing Committee Harry Kesten Chairman Richard Holley and Thomas Liggett for organizing a workshop which brought together scientists and mathematicians in a variety of areas for a fruitful exchange of ideas George R Sell Hans Weinherger PREFACE Percolation theory and interacting particle systems both have seen an explosive growth in the last decade These suhfields of probability theory are closely related to statistical mechanics and many of the publications on these suhjects especially on the former appear in physics journals wit a great variability in the level of rigour There is a certain similarity and overlap hetween the methods used in these two areas and not surprisingly they tend to attract the same probabilists It seemed a good idea to organize a workshop on Percolation Theory and Ergodic Theory of Infinite Particle Systems in the framework of the special probability year at the Institute for Mathematics and its Applications in 1985 86 Such a workshop dealing largely with rigorous results was indeed held in February 1986

Workshop on Non-Perturbative Quantum Chromodynamics Kimball Milton, M.A. Samuel, 2012-12-06 The Geometry of Fractal Sets K. J. Falconer, 1985 A mathematical study of the geometrical aspects of sets of both integral and fractional Hausdorff dimension Considers guestions of local density the existence of tangents of such sets as well as the dimensional properties of their projections in various directions Topics in Quantum Mechanics Floyd Williams, 2012-12-06 Quantum mechanics and quantum field theory are highly successful physical theories that have numerous practical applications Largely mathematical in character these theories continue to stimulate the imaginations of applied mathematicians and purists as well In recent years in particular as a new array of tools have emerged including a representative amount from the domain of so called pure mathematics interest in both the conceptual and physical aspects of these beau tiful subjects has especially blossomed Given the emergence of newer and of ten spectacular applications of mathematics to quantum theory and to theoretical physics in general one notes that certain communication gaps between physicists and mathematicians continue to be bridged This text on quantum mechanics designed primarily for mathematics students and researchers is an attempt to bridge further gaps Although the mathematical style presented is generally precise it is counterbalanced at some points by a re laxation of precision as our overall purpose is to capture the basic fiavor of the subject both formally and intuitively The approach is one in which we attempt to maintain sensitivity with respect to diverse backgrounds of the readers including those with modest backgrounds in physics Thus we have included several con crete computational examples to fortify stated principles several appendices and certain basic physical concepts that help to provide for a reasonably self contained account of the material especially in the first 11 chapters The Complex WKB Method for **Nonlinear Equations I** Victor P. Maslov, 2012-12-06 When this book was first published in Russian it proved to become the fountainhead of a major stream of important papers in mathematics physics and even chemistry indeed it formed the basis of new methodology and opened new directions for research The present English edition includes new examples of applications

to physics hitherto unpublished or available only in Russian Its central mathematical idea is to use topological methods to analyze isotropic invariant manifolds in order to obtain asymptotic series of eigenvalues and eigenvectors for the multi dimensional Schr dinger equation and also to take into account the so called tunnel effects Finite dimensional linear theory is reviewed in detail Infinite dimensional linear theory and its applications to quantum statistics and quantum field theory as well as the nonlinear theory involving instantons will be considered in a second volume Large Scale Dynamics of Interacting Particles Herbert Spohn, 2012-12-06 This book deals with one of the fundamental problems of nonequilibrium statistical mechanics the explanation of large scale dynamics evolution differential equations from models of a very large number of interacting particles This book addresses both researchers and students Much of the material presented has never been published in book form before Geometric Phases in Classical and Quantum Mechanics Dariusz Chruscinski, Andrzej Jamiolkowski, 2012-12-06 Several well established geometric and topological methods are used in this work in an application to a beautiful physical phenomenon known as the geometric phase This book examines the geometric phase bringing together different physical phenomena under a unified mathematical scheme The material is presented so that graduate students and researchers in applied mathematics and physics with an understanding of classical and guantum mechanics can handle the text Quantum Field Theory Arthur Jaffe, Harry Lehmann, Gerhard Mack, 2012-12-06 Kurt Symanzik was certainly one of the most outstanding theoretical physicists of our time For thirty years until his untimely death in 1983 he helped to shape the present form of quantum field theory and its application to elementary particle physics In memoriam of Kurt Symanzik leading scientists present their most recent results giving at the same time an overview of the state of the art This collection was originally published in Vol 97 1 2 1985 of Communications in Mathematical Physics They range over various inter related topics of interest to Kurt Symanzik We hope that making this collection available in an accessible and inexpensive way will benefit the physics community The Publisher Contents To the Memory of Kurt Symanzik 1 By A Jaffe H Lehmann and G Mack Monte Carlo Simulations for Quantum Field Theories Involving Fermions By M Karowski R Schrader and H J Thun With 8 Figures 5 SU 2 Lattice Gauge Theory Standard Action Versus Symanzik s Tree Improved Action By B Berg A Billoire S Meyer and C Panagiotakopoulos With 13 Figures 31 On shell Improved Lattice Gauge Theories By M Luscher and P Weisz With 3 Figures 59 On the Modular Structure of Local Algebras of Observables By K Fredenhagen 79 The Intersection of Brownian Paths as a Case Study of a Renormalization Group Method for Quantum Field Theory By M Aizenman With 3 Figures 91 Intersection Properties of Simple Random Walks A Renormalization Group Approach By G MathPhys Odyssev 2001 Masaki Kashiwara, Tetsuji Miwa, 2002-05-24 MathPhys Odyssev 2001 Felder and I Frohlich 111 will serve as an excellent reference text for mathematical physicists and graduate students in a number of areas Kashiwara Miwa have a good track record with both SV and Birkhauser **Group-Theoretical Methods for Integration of** Nonlinear Dynamical Systems Andrei N. Leznov, Mikhail V. Saveliev, 2012-12-06 The book reviews a large number of 1 and

2 dimensional equations that describe nonlinear phenomena in various areas of modern theoretical and mathematical physics. It is meant above all for physicists who specialize in the field theory and physics of elementary particles and plasma for mathe maticians dealing with nonlinear differential equations differential geometry and algebra and the theory of Lie algebras and groups and their representations and for students and post graduates in these fields. We hope that the book will be useful also for experts in hydrodynamics solid state physics nonlinear optics electrophysics biophysics and physics of the Earth The first two chapters of the book present some results from the representation theory of Lie groups and Lie algebras and their counterpart on supermanifolds in a form convenient in what follows. They are addressed to those who are interested in integrable systems but have a scanty vocabulary in the language of representation theory. The experts may refer to the first two chapters only occasionally. As we wanted to give the reader an opportunity not only to come to grips with the problem on the ideological level but also to integrate her or his own concrete nonlinear equations without reference to the literature we had to expose in a self-contained way the appropriate parts of the representation theory from a particular point of view.

Gibbs Random Fields V.A. Malyshev, Robert A. Minlos, 2012-12-06 Et moi si j avait su comment en revenir One service mathematics has rendered the human race It has put common sense back je n y serais point alle Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded non The series is divergent therefore we may be sense able 10 do something with it Eric T Bell O Heaviside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One service logic has rendered com puter science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d etre of this Quantum Field Theory I: Basics in Mathematics and Physics Eberhard Zeidler, 2007-04-18 This is the first series volume of a modern introduction to quantum field theory which addresses both mathematicians and physicists at levels ranging from advanced undergraduate students to professional scientists The book bridges the acknowledged gap between the different languages used by mathematicians and physicists For students of mathematics the author shows that detailed knowledge of the physical background helps to motivate the mathematical subjects and to discover interesting interrelationships between quite different mathematical topics For students of physics fairly advanced mathematics is presented which goes beyond the usual curriculum in physics Scaling and Self-Similarity in Physics J. Frohlich, 2014-09-01

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