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R. L. Weber

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Mechanics and Random Walks Abram Skogseid,Vicente Fasano,2011-10 In this book the authors gather and present topical research in the study of statistical mechanics and random walk principles and applications Topics discussed in this compilation include the application of stochastic approaches to modelling suspension flow in porous media subordinated Gaussian processes random walk models in biophysical science non equilibrium dynamics and diffusion processes global random walk algorithm for diffusion processes and application of random walks for the analysis of graphs musical composition and language phylogeny   *Fake Physics: Spoofs, Hoaxes and Fictitious Science* Andrew May,2019-04-12 People are used to seeing fake physics in science fiction concepts like faster than light travel antigravity and time travel to name a few The fiction label ought to be a giveaway but some SF writers especially those with a background in professional science are so adept at technobabble that it can be difficult to work out what is fake and what is real To confuse matters further Isaac Asimov s 1948 piece about the fictitious time travelling substance thiotimoline was written not as a short story but in the form of a spoof research paper The boundaries between fact and fiction can also be blurred by physicists themselves sometimes unintentionally sometimes with tongue in cheek sometimes to satirize perceived weaknesses in research practices Examples range from hoaxes aimed at exposing poor editorial standards in academic publications through thought experiments that sound like the plot of a sci fi movie to April Fools jokes Even the latter may carry a serious message whether about the sociology of science or poking fun at legitimate but far out scientific hypotheses This entertaining book is a joyous romp exploring the whole spectrum of fake physics from science to fiction and back again   **Random Walks, Critical Phenomena, and Triviality in Quantum Field Theory** Roberto Fernandez,Jürg Fröhlich,Alan D. Sokal,2013-03-14 Simple random walks or equivalently sums of independent random vari ables have long been a standard topic of probability theory and mathemat ical physics In the 1950s non Markovian random walk models such as the self avoiding walk were introduced into theoretical polymer physics and gradu ally came to serve as a paradigm for the general theory of critical phenomena In the past decade random walk expansions have evolved into an important tool for the rigorous analysis of critical phenomena in classical spin systems and of the continuum limit in quantum field theory Among the results obtained by random walk methods are the proof of triviality of the cp4 quantum field theo ryin space time dimension d 4 and the proof of mean field critical behavior for cp4 and Ising models in space dimension d 4 The principal goal of the present monograph is to present a detailed review of these developments It is supplemented by a brief excursion to the theory of random surfaces and various applications thereof This book has grown out of research carried out by the authors mainly from 1982 until the middle of 1985 Our original intention was to write a research paper However the writing of such a paper turned out to be a very slow process partly because of our geographical separation partly because each of us was involved in other projects that may have appeared more urgent   **Introduction to Computational Science** Angela B. Shiflet,George W. Shiflet,2014-03-30 The essential introduction to computational science now fully updated and expanded Computational

science is an exciting new field at the intersection of the sciences computer science and mathematics because much scientific investigation now involves computing as well as theory and experiment This textbook provides students with a versatile and accessible introduction to the subject It assumes only a background in high school algebra enables instructors to follow tailored pathways through the material and is the only textbook of its kind designed specifically for an introductory course in the computational science and engineering curriculum While the text itself is generic an accompanying website offers tutorials and files in a variety of software packages This fully updated and expanded edition features two new chapters on agent based simulations and modeling with matrices ten new project modules and an additional module on diffusion Besides increased treatment of high performance computing and its applications the book also includes additional quick review questions with answers exercises and individual and team projects The only introductory textbook of its kind now fully updated and expanded Features two new chapters on agent based simulations and modeling with matrices Increased coverage of high performance computing and its applications Includes additional modules review questions exercises and projects An online instructor s manual with exercise answers selected project solutions and a test bank and solutions available only to professors An online illustration package is available to professors **The Science of Disasters** Armin Bunde,Jürgen Kropp,Hans-Joachim Schellnhuber,2012-12-06 Are there universal laws governing the persistence of weather and is it possible to predict climate transitions as generated by natural or man made perturbations How can one quantify the roller coaster dynamics of stock markets and anticipate mega crashes Can we diagnose the health condition of patients from heartbeat time series analysis which may even form the basis for infarct prevention This book tackles these questions by applying advanced methods from statistical physics and related fields to all types of non linear dynamics prone to disaster The transdisciplinary analysis is organized in some dozen review articles written by world class scientists **A Random Walk Through Fractal Dimensions** Brian H. Kaye,2008-07-11 Fractal geometry is revolutionizing the descriptive mathematics of applied materials systems Rather than presenting a mathematical treatise Brian Kaye demonstrates the power of fractal geometry in describing materials ranging from Swiss cheese to pyrolytic graphite Written from a practical point of view the author assiduously avoids the use of equations while introducing the reader to numerous interesting and challenging problems in subject areas ranging from geography to fine particle science The second edition of this successful book provides up to date literature coverage of the use of fractal geometry in all areas of science From reviews of the first edition no stone is left unturned in the quest for applications of fractal geometry to fine particle problems This book should provide hours of enjoyable reading to those wishing to become acquainted with the ideas of fractal geometry as applied to practical materials problems MRS Bulletin

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