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The Transition to Chaos In Conservative Classical Systems: Quantum Manifestations by L.E. Reichl. Springer-Verlag, New York, 1992 Hardcover--551 pp. ISBN: 0387977538. Order this book online from Fatbrain.com. The book on chaos that is becoming a modern classic.

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Based on courses given at the universities of Texas and California, this book treats an active field of research that touches upon the foundations of physics and chemistry. It presents, in as simple a manner as possible, the basic mechanisms that determine the dynamical evolution of both classical and quantum systems in sufficient generality to include quantum phenomena. The book begins with a discussion of Noether's theorem, integrability, KAM theory, and a definition of chaotic behavior; continues with a detailed discussion of area-preserving maps, integrable quantum systems, spectral properties, path integrals, and periodically driven systems; and concludes by showing how to apply the ideas to stochastic systems. The presentation is complete and self-contained; appendices provide much of the needed mathematical background, and there are extensive references to the current literature; while problems at the ends of chapters help students

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clarify their understanding. This new edition has an updated presentation throughout, and a new chapter on open quantum systems.

Based on courses given at the universities of Texas and California, this book treats an active field of research that touches upon the foundations of physics and chemistry. It presents, in as simple a manner as possible, the basic mechanisms that determine the dynamical evolution of both classical and quantum systems in sufficient generality to include quantum phenomena. The book begins with a discussion of Noether's theorem, integrability, KAM theory, and a definition of chaotic behavior; continues with a detailed discussion of area-preserving maps, integrable quantum systems, spectral properties, path integrals, and periodically driven systems; and concludes by showing how to apply the ideas to stochastic systems. The presentation is complete and self-contained; appendices provide much of the needed mathematical background, and there are extensive references to the current literature; while problems at the ends of chapters help students clarify their understanding. This new edition has an updated presentation throughout, and a new chapter on open quantum systems.

resonances. Nonlinear resonances cause divergences in conventional perturbation expansions. This occurs because nonlinear resonances cause a topological change

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locally in the structure of the phase space and simple perturbation theory is not adequate to deal with such topological changes. In Sect. (2.3), we introduce the concept of integrability. A system is integrable if it has as many global constants of the motion as degrees of freedom. The connection between global symmetries and global constants of motion was first proven for dynamical systems by Noether [Noether 1918]. We will give a simple derivation of Noether's theorem in Sect. (2.3). As we shall see in more detail in Chapter 5, are whole classes of systems which are now known to be integrable due to methods developed for soliton physics. In Sect. (2.3), we illustrate these methods for the simple three-body Toda lattice. It is usually impossible to tell if a system is integrable or not just by looking at the equations of motion. The Poincare surface of section provides a very useful numerical tool for testing for integrability and will be used throughout the remainder of this book. We will illustrate the use of the Poincare surface of section for classic model of Henon and Heiles [Henon and Heiles 1964].

A Modern Course in Statistical Physics is a textbook that illustrates the foundations of equilibrium and non-equilibrium statistical physics, and the universal nature of thermodynamic processes, from the point of view of contemporary research problems. The book treats such diverse topics as the microscopic theory of critical phenomena, superfluid dynamics, quantum conductance, light scattering, transport processes, and dissipative structures, all in the framework of the foundations of statistical physics and thermodynamics. It shows the quantum origins of problems

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in classical statistical physics. One focus of the book is fluctuations that occur due to the discrete nature of matter, a topic of growing importance for nanometer scale physics and biophysics. Another focus concerns classical and quantum phase transitions, in both monatomic and mixed particle systems. This fourth edition extends the range of topics considered to include, for example, entropic forces, electrochemical processes in biological systems and batteries, adsorption processes in biological systems, diamagnetism, the theory of Bose-Einstein condensation, memory effects in Brownian motion, the hydrodynamics of binary mixtures. A set of exercises and problems is to be found at the end of each chapter and, in addition, solutions to a subset of the problems is provided. The appendices cover Exact Differentials, Ergodicity, Number Representation, Scattering Theory, and also a short course on Probability.

With a good background in nonlinear dynamics, chaos theory, and applications, the author of this leading book gives a systematic treatment of the basic principle of nonlinear dynamics in different fields. The contributions from leading international scientists active in the field provide a comprehensive overview of our current level of background on chaos theory and applications in different sciences. In addition, they show overlap with the traditional field of control theory in scientific community.

In these proceedings, it is shown that thermodynamical concepts are not 'old

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fashioned' but still are most useful at the frontiers of modern science. Among the contributors are well-known experts such as Andresen (Copenhagen), Eu (Montreal), Großmann (Marburg), Kawasaki (Fukuoka), Maugin (Paris), Nicolis (Bruxelles) and Szépfalussy (Budapest). The subject covers a wide field including: recent developments in phenomenological thermodynamics, statistical foundation of thermodynamical concepts, thermodynamical concepts in nonlinear dynamics, applications to nonlinear (neural) networks, stochastic theory and transition processes. Contents: Random Stresses in Potts Models of Disordered Plastic Crystals (A Güntzel et al.) Sensitivity to Initial Conditions in Complex Systems (G Nicolis et al.) Nonlinear Dynamics in Low-Dimensional Lattices: A Chemical Reaction Model (A Provata & J W Turner) Resonant Pair Nucleation in an Overdamped Sine-Gordon Chain (F Marchesoni) Finite-Time Optimization of Chemical Reactions and Connections to Thermodynamic Speed (J Ch Schön & B Andresen) A Variation Principle for Differential Transport Coefficients (M Ichiyanagi) Higher-Order Fluxes and Effective Relaxation Times in Extended Thermodynamics (D Jou) Projection Operators in Statistical Formulation of Nonlinear and Extended Thermodynamics (R E Nettleton) Thermodynamics of Light and Sound (I Müller) Entropy, Predictability and Historicity of Nonlinear Processes (W Ebeling) Symmetry and Coherent Approximations in Non-Equilibrium Systems (M Suzuki) and other papers
Readership: Statistical and thermodynamical working physicists.

In a period of dramatic transformation and upheaval, as we wonder what the future

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holds, this book reminds us that the world has undergone enormous changes before and that an understanding of those changes may tell us something about our own turbulent time. The authors look to two earlier periods that resemble the present in key respects -- the transition from Dutch to British world hegemony in the eighteenth century and the transition from British to U.S. world hegemony in the late-nineteenth and early-twentieth centuries. In each case, a system wide expansion culminated in crisis and systemic chaos; eventually, a new hegemonic power reorganized the system to solve the problems and contradictions that underlay the chaos. The authors find recurrent characteristics in these transitions, such as the resurgence of finance capital and the intensification of interstate rivalries and social conflict. They also recognize, however, how the present transition differs from the previous patterns. Among the anomalies are the proliferation of transnational organizations and communities, increased social conflict in driving systemic change, a geographical split between military and financial powers, and a shift in the processes of capital accumulation away from the West. Chaos and Governance in the Modern Worm System addresses controversies affecting a range of fields -- political, economic, social, and cultural -- concerned with global change. Though written from a world-systems perspective, it emphasizes the instability and adaptability of world capitalism and the role played by hegemonic states in periodically reorganizing the system.

The transition from President Donald J. Trump to President Joseph R. Biden Jr.

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stands as one of the most dangerous periods in American history. But as # 1 internationally bestselling author Bob Woodward and acclaimed reporter Robert Costa reveal for the first time, it was far more than just a domestic political crisis. Woodward and Costa interviewed more than 200 people at the center of the turmoil, resulting in more than 6,000 pages of transcripts—and a spellbinding and definitive portrait of a nation on the brink. This classic study of Washington takes readers deep inside the Trump White House, the Biden White House, the 2020 campaign, and the Pentagon and Congress, with vivid, eyewitness accounts of what really happened. Peril is supplemented throughout with never-before-seen material from secret orders, transcripts of confidential calls, diaries, emails, meeting notes and other personal and government records, making for an unparalleled history. It is also the first inside look at Biden's presidency as he faces the challenges of a lifetime: the continuing deadly pandemic and millions of Americans facing soul-crushing economic pain, all the while navigating a bitter and disabling partisan divide, a world rife with threats, and the hovering, dark shadow of the former president. "We have much to do in this winter of peril," Biden declared at his inauguration, an event marked by a nerve-wracking security alert and the threat of domestic terrorism. Peril is the extraordinary story of the end of one presidency and the beginning of another, and represents the culmination of Bob Woodward's news-making trilogy on the Trump presidency, along with Fear and Rage. And it is the beginning of a collaboration with fellow Washington Post reporter Robert Costa that will remind readers of Woodward's coverage, with Carl

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Bernstein, of President Richard M. Nixon's final days.

This book provides a summary of the research conducted at UCLA, Stanford University, and UCSD over the last 25 years in the area of nonlinear dynamics and chaos as applied to digital communications. At first blush, the term "chaotic communications" seems like an oxymoron; how could something as precise and deterministic as digital communications be chaotic? But as this book will demonstrate, the application of chaos and nonlinear dynamicsto communications provides many promising new directions in areas of coding, nonlinear optical communications, and ultra-wideband communications. The eleven chapters of the book summarize many of the promising new approaches that have been developed, and point the way to new research directions in this field. Digital communications techniques have been continuously developed and refined for the past 50 years to the point where today they form the heart of a multi-hundred billion dollar per year industry employing hundreds of thousands of people on a worldwide basis. There is a continuing need for transmission and reception of digital signals at higher and higher data rates. There are a variety of physical limits that place an upper limit on these data rates, and so the question naturally arises: are there alternative communication techniques that can overcome some of these limitations? Most digital communications today is carried out using electronic devices that are essentially "linear," and linear system theory has been used to continually refine their performance. In many cases, inherently nonlinear devices are

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linearized in order to achieve a certain level of linear system performance.

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