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Welcome to RWJF's Pioneering Ideas podcast—a podcast for people interested in exploring cutting-edge ideas and emerging trends. We seek to inspire new thinking, spark “aha! moments” and cultivate rich, ongoing conversations. Explore past episodes where we talk with visionary thinkers inside and outside of health care, and discover together new ways to build a Culture of Health.

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Pioneering Ideas: Exploring the Future to Build a Culture ...

Johann Josef Loschmidt (15 March 1821 – 8 July 1895), who referred to himself mostly as Josef Loschmidt (omitting his first name), was a notable Austrian scientist who performed ground-breaking work in chemistry, physics (thermodynamics, optics, electrodynamics), and crystal forms.

Johann Josef Loschmidt - Wikipedia

Pioneering Ideas for the Physical and Chemical Sciences. Josef Loschmidt's Contributions and Modern Develop- ments in Structural Organic Chemis- try, Atomistics, and Statistical Me- chanics, ed. by W. FLEISCHHACKER & T. SCHÖNFELD, Plenum Press, New York, 1997, pp. 320 (ISBN 0- 306-45684-2)

This volume presents the contributions delivered at the "Josef-Loschmidt-Sympo sium," which took place in Vienna, June 25-27, 1995. The symposium was arranged to honor Josef Loschmidt one hundred years after his death (8 July 1895), to evaluate the sig nificance of his contributions to chemistry and physics from a modem point of view and to trace the development of scientific fields in which he had done pioneering work. Loschmidt is widely known for the first calculation of the size of molecules (1865/66), which also led to values for the number of molecules in unit gas volume and for the mass of molecules. With critical analyses of problems in statistical physics he made important contributions to the development of that field, "Loschmidt's paradoxon" continuing to be a point of departure for present day studies and discussions. For decades there was little awareness that Loschmidt was a pioneer in organic struc tural chemistry. Only in recent years has Loschmidt's first scientific publication "Chemis che Studien I", published in 1861, become more widely known and it is now recognized that with his ideas on the structure of organic molecules he was greatly ahead of the chemists of that time. The papers in these proceedings are arranged in three sections: l. Organic structural chemistry (Chapters 1-12). 2. Physics and physical chemistry (Chapters 13-26). 3.

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Most scientists and engineers are familiar with the name Josef Stefan primarily from the Stefan-Boltzmann law, which relates the amount of energy transferred by radiation to the absolute temperature raised to the fourth power. Stefan determined this law from experimental data, and it was later theoretically verified by his former student, Ludwig Boltzmann. However, it is interesting to know that this is the same Stefan who lent his name to the solid-liquid phase change problem, and concepts related to molecular diffusion and convective motion driven by surface evaporation or ablation. Stefan counted among his students Sigmund Freud, who was so inspired by his physics instructor that he incorporated scientific methods into psychoanalysis. This invaluable book details not only Josef Stefan’s original contributions in these areas, but the current state-of-the-art of his pioneering work.

A small army of physicists, chemists, mathematicians, and engineers has joined forces to attack a classic problem, the "reversibility paradox", with modern tools. This book describes their work from the perspective of computer simulation, emphasizing the authors' approach to the problem of understanding the compatibility, and even inevitability, of the irreversible second law of thermodynamics with an underlying time-reversible mechanics. Computer simulation has made it possible to probe reversibility from a variety of directions and "chaos theory" or "nonlinear dynamics" has supplied a useful vocabulary and a set of concepts, which allow a fuller explanation of irreversibility than that available to Boltzmann or to Green, Kubo and Onsager. Clear illustration of concepts is emphasized throughout, and reinforced with a glossary of technical terms from the specialized fields which have been combined here to focus on a common theme. The book begins with a discussion, contrasting the idealized reversibility of basic physics against the pragmatic irreversibility of real life. Computer models, and simulation, are next discussed and illustrated. Simulations provide the means to assimilate concepts through worked-out examples. State-of-the-art analyses, from the point of view of dynamical systems, are applied to many-body examples from nonequilibrium molecular dynamics and to chaotic irreversible flows from finite-difference, finite-element, and particle-based continuum simulations. Two necessary concepts from dynamical-systems theory — fractals and Lyapunov instability — are fundamental to the approach. Undergraduate-level physics, calculus, and ordinary differential equations are sufficient background for a full appreciation of this book, which is intended for advanced undergraduates, graduates, and research workers. The generous assortment of examples worked out in the text will stimulate readers to explore the rich and fruitful field of study which links fundamental reversible laws of physics to the irreversibility surrounding us all. This expanded edition stresses and illustrates computer algorithms with many new worked-out examples, and includes considerable new material on shockwaves, Lyapunov instability and fluctuations. Sample Chapter(s) Chapter 1: Time Reversibility, Computer Simulation, Algorithms, Chaos (1,908 KB) Contents:Time Reversibility, Computer Simulation, Algorithms, ChaosTime-Reversibility in Physics and ComputationGibbs' Statistical MechanicsIrreversibility in Real LifeMicroscopic Computer SimulationShockwaves RevisitedMacroscopic Computer SimulationChaos, Lyapunov Instability, FractalsResolving the Reversibility ParadoxAfterword — a Research Perspective Readership: Students of statistical physics and computer simulation. Keywords:Time Reversibility;Computer Simulation;Algorithms;ChaosKey Features:Provides comprehensive resource for simulation and analysis of classical equilibrium and nonequilibrium systems, both small and largeClear and thorough exposition of latest algorithms and techniques for research in simulationHands-on algorithms, clear analysis of recent developments, assessment of the state-of-the-artReviews: "Bill and Carol Hoover have teamed up to produce this greatly expanded new edition of Bill's earlier book grappling with one of the oldest problems in physics — reconciling the irreversibility of thermodynamics with the reversibility of Newtonian mechanics. It represents a personal account of a lifetime of research, including insights provided by advances in chaos, fractals, and computer simulation. It is the best source for anyone seeking a deep understanding of these seemingly paradoxical basic laws of physics." Julien Clinton Sprott Emeritus Professor of Physics, University of Wisconsin – Madison Author of Chaos and Time-Series Analysis and Elegant Chaos "The second edition with over 100 pages of new material, gives an up-to-date and distinctive treatment of physical issues, emphasizing the need for a holistic view incorporating theory, simulation and experiment … It provides rich inspiration and insight for graduate students and more experienced researchers alike. This work challenges philosophers and mathematicians to engage with the latest numerical and experimental findings, and practitioners of quantum chaos and nanotechnology to incorporate and extend the underpinning classical irreversibility." Dr Carl Dettmann University of Bristol "Many remarks and asides are very informative and will be of interest to a broad range of physicists. I was pleasantly surprised by the overall ambition, breadth and scope of this excellent book. "

Contemporary Physics Review of the First Edition: “The author has written a lively, informal, and somewhat personal review of a branch of statistical physics that he has helped develop over the past two decades or so.” Mathematical Reviews

Nineteenth-century chemists were faced with a particular problem: how to depict the atoms and molecules that are beyond the direct reach of our bodily senses. In visualizing this microworld, these scientists were the first to move beyond high-level philosophical speculations regarding the unseen. In Image and Reality, Alan Rocke focuses on the community of organic chemists in Germany to provide the basis for a fuller understanding of the nature of scientific creativity. Arguing that visual mental images regularly assisted many of these scientists in thinking through old problems and new possibilities, Rocke uses a variety of sources, including private correspondence, diagrams and illustrations, scientific papers, and public statements, to investigate their ability to not only imagine the invisibly tiny atoms and molecules upon which they operated daily, but to build detailed and empirically based pictures of how all of the atoms in complicated molecules were interconnected. These portrayals of “chemical structures,” both as mental images and as paper tools, gradually became an accepted part of science during these years and are now regarded as one of the central defining features of chemistry. In telling this fascinating story in a manner accessible to the lay reader, Rocke also suggests that imagistic thinking is often at the heart of creative thinking in all fields. Image and Reality is the first book in the Synthesis series, a series in the history of chemistry, broadly construed, edited by Angela N. H. Creager, John E. Lesch, Stuart W. Leslie, Lawrence M. Principe, Alan Rocke, E.C. Spary, and Audra J. Wolfe, in partnership with the Chemical Heritage Foundation.

Phase transitions in disordered systems and related dynamical phenomena are a topic of intrinsically high interest in theoretical and experimental physics. This book presents a unified view, adopting concepts from each of the disjoint fields of disordered systems and nonlinear dynamics. Special attention is paid to the glass transition, from both experimental and theoretical viewpoints, to modern concepts of pattern formation, and to the application of the concepts of dynamical systems for understanding equilibrium and nonequilibrium properties of fluids and solids. The content is accessible to graduate students, but will also be of benefit to specialists, since the presentation extends as far as the topics of ongoing research work.

Over the last decade of the 20th century, many improvements took place in the field of metrology and fundamental constants. These developments and improvements are discussed in this book. The old caesium SI second definition has found a new realization with the fountain approach, replacing the classical thermal atomic beam. The use of cold atom techniques, slowed down and cooled, has opened a number of unexpected avenues for metrology and fundamental constants, one of these possibilities being the atom interferometry. Another development was the demonstration of the possiblility of performing a direct frequency division in the visible, using short femtosecond pulses. Many other developments are also discussed.

"An original physicochemical contribution to the problem of understanding life and its emergence, incorporating concepts from planetary sciences, chemistry and biology"--

Recent years have witnessed a resurgence in the kinetic approach to dynamic many-body problems. Modern kinetic theory offers a unifying theoretical framework within which a great variety of seemingly unrelated systems can be explored in a coherent way. Kinetic methods are currently being applied in such areas as the dynamics of colloidal suspensions, granular material flow, electron transport in mesoscopic systems, the calculation of Lyapunov exponents and other properties of classical many-body systems characterised by chaotic behaviour. The present work focuses on Brownian motion, dynamical systems, granular flows, and quantum kinetic theory.