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The Time Bubble Modeling of Helium Bubble Nucleation and Growth in Neutron Irradiated RAFM Steels The Acoustic Bubble From the Outer Heliosphere to the Local Bubble Vapor-Liquid Interfaces, Bubbles and Droplets Housing Bubbles Transport Phenomena with Drops and Bubbles Magnetic Domain Walls in Bubble Materials Bubble Systems 1985-1991 Speculative Bubbles, Speculative Attacks, and Policy Switching In a Bubble of Time Cavitation and Bubble Dynamics Monetary Policy and the Housing Bubble Ultrafine Bubbles Bubbles and Crashes Economic Uncertainty, Instabilities And Asset Bubbles: Selected Essays A Course of Lectures in Natural Philosophy. By the Late Richard Helsham, M.D. Professor of Physik and Natural Philosophy in the Uniuersity of Dublin. Published by Bryan Robinson, M.D Bubbles and Crashes in Experimental Asset Markets Manias, Casinos, Bubbles and Crashes Magnetic Bubble Technology Kaleidoscope Of Physics, The: From Soap Bubbles To Quantum Technologies Bubbles, Drops, and Particles in Non-Newtonian Fluids Heat Pipes Structure and Composition Measurements in Equatorial Ionospheric Bubbles Understanding Housing Bubbles Bubble's World Bubbles, Booms, and Busts The laurel wreath, ed. by miss McCaul Bubbles, Boxes and Individual Freedom The Cosmology of Extra Dimensions and Varying Fundamental Constants Toward a Metatheory of Economic Bubbles: Socio-Political and Cultural Perspectives Progress in Physics, vol. 2/2017

The Time Bubble

2014-06-19

charlie and josh s interests were the same as most other teenagers drinking parties and girls that was until the day they discovered the time bubble it starts at a bit of fun jumping a few seconds into the future soon things take a more serious turn as the leaps in time increase in duration when a teenage girl goes missing and the police become involved suspicion falls on charlie how can he explain where she is will anyone believe him as the long term dangers of the bubble become clear one man comes up with a solution one that could hold the key to his own salvation set in a small market town in southern england in the early 21st century this light hearted time travel novel has plenty to delight readers of all ages this novel is the first part of a trilogy global cooling the second in the series is now available

Modeling of Helium Bubble Nucleation and Growth in Neutron Irradiated RAFM Steels

2014-05-22

reduced activation ferritic martensitic rafm steels are first candidate structural materials in future fusion technology in this work a physically based model using rate theory is developed to describe nucleation and growth of helium bubbles in neutron irradiated rafm steels several modifications of the basic diffusion limited model are presented allowing a comprehensive view of clustering effects and their influence on expected helium bubble size distributions

The Acoustic Bubble

1994

this volume deals with the interaction of acoustic fields with bubbles in liquids the principles of cavitation generation of bubbles in liquids by rapid changes as those introduced by ultrasound are expounded when cavity bubbles implode they produce shock waves in the liquid components can be damaged by cavitation if it is induced by turbulent flow these phenomena have important implications particularly in underwater acoustics the fastest growing field in acoustics research

From the Outer Heliosphere to the Local Bubble

2009-04-29

knowledge about the outer heliosphere and the interstellar medium which were long treated as two separate fields has improved dramatically over the past 25 years as a consequence of recent developments the discovery of interstellar pickup ions and neutral helium inside the

2023-05-21

2/15

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heliosphere the determination of the interstellar hydrogen distribution in the heliosphere obtained using backscattered solar lyman alpha radiation the prediction and subsequent detection of the hydrogen wall just outside of the heliopause the development of detailed global models for the interaction of solar wind plasma with the interstellar medium and most recently direct in situ plasma and field measurements inside of the heliosheath at the same time our understanding of the nearby galactic environment including the composition and dynamics of the warm gas clouds and hot gas in the local bubble has benefited greatly from absorption line spectroscopy using nearby stars as background sources and dynamic modeling the present volume provides a synopsis of these developments organised into seven sections dominant physical processes in the termination shock and heliosheath three dimensional shape and structure of the dynamic heliosphere relation of the plasmas and dust inside and outside of the heliosphere origin and properties of the very local interstellar medium energy and pressure equilibria in the local bubble physical processes in the multiphase interstellar medium inside of the local bubble and the roles that magnetic fields play in the outer heliosphere and the local bubble the last theme is probably the most basic of all as magnetic fields play important roles in most of the phenomena discussed here the volume concludes with four papers providing the big picture by looking at the time evolution of both the heliosphere and the local bubble looking beyond the local bubble and finally addressing the challenges in modeling the interface between the two media

Vapor-Liquid Interfaces, Bubbles and Droplets

2011-04-18

physically correct boundary conditions on vapor liquid interfaces are essential in order to make an analysis of flows of a liquid including bubbles or of a gas including droplets suitable boundary conditions do not exist at the present time this book is concerned with the kinetic boundary condition for both the plane and curved vapor liquid interfaces and the fluid dynamics boundary condition for navier stokes fluid dynamics equations the kinetic boundary condition is formulated on the basis of molecular dynamics simulations and the fluid dynamics boundary condition is derived by a perturbation analysis of gaussian bgk boltzmann equation applicable to polyatomic gases the fluid dynamics boundary condition is applied to actual flow problems of bubbles in a liquid and droplets in a gas

Housing Bubbles

2018-10-01

this book provides an accessible yet formal framework to understand how housing bubbles arise their international dimension their consequences and ways to prevent them Òscar jordà university of california davis usa basco s analysis blends in a very rigorous but enjoyable manner state of the art theory and historical examples adding also a very timely and valuable set of policy orientations Òscar arce director general banco de españa madrid spain booms and busts of house prices are a recurrent feature throughout history this book provides a comprehensive overview of the origins and economic consequences of these housing bubbles the book starts with a formal definition of asset price bubbles and a summary of the most famous episodes before describing how economists have thought about asset price

2023-05-21

bubbles specifically behavioral vs rational interpretations these theories are applied to the special case of housing and the same framework is used to explain the implications of financial globalization for capital flows and housing bubbles after analyzing its origins the economic consequences of housing bubbles for both households and firms are derived and documented the final sections are devoted to discussing the effects of financial crises and explain how financial regulation could mitigate the emergence of future housing bubbles case studies of the recent housing bubbles in the united states and spain are also featured in the book this book will be of value to advanced undergraduate macroeconomic courses as well as researchers in international economics and macroeconomics and policy makers

Transport Phenomena with Drops and Bubbles

2012-12-06

fluid flows that transfer heat and mass often involve drops and bubbles particularly if there are changes of phase in the fluid in the formation or condensation of steam for example such flows pose problems for the chemical and mechanical engineer significantly different from those posed by single phase flows this book reviews the current state of the field and will serve as a reference for researchers engineers teachers and students concerned with transport phenomena it begins with a review of the basics of fluid flow and a discussion of the shapes and sizes of fluid particles and the factors that determine these the discussion then turns to flows at low reynolds numbers including effects due to phase changes or to large radial inertia flows at intermediate and high reynolds numbers are treated from a numerical perspective with reference to experimental results the next chapter considers the effects of solid walls on fluid particles treating both the statics and dynamics of the particle wall interaction and the effects of phase changes at a solid wall this is followed by a discussion of the formation and breakup of drops and bubbles both with and without phase changes the last two chapters discuss compound drops and bubbles primarily in three phase systems and special topics such as transport in an electric field

Magnetic Domain Walls in Bubble Materials

2016-09-01

magnetic domain walls in bubble materials covers the physics of domain walls in bubble domain materials the book describes the microscopic origins and characteristics of the material parameters the principles of domain statics and the landau lifshitz equation which is the basic equation of magnetization dynamics and its physical significance the text then discusses the experimental techniques both static and dynamic used in studying domain walls the static internal structure of bubble domain walls the bloch wall dynamics based on one dimensional solutions of the landau lifshitz equation and the wall motion theory the theory to low velocity phenomena in domain walls containing vertical bloch high velocity radial and quasi planar wall motions and nonlinear bubble translation including the implications of the theory for bubble motion in devices are also considered the book further surveys special phenomena involving vibrations and wave motions of walls and the effects of microwave frequency fields on walls engineers and materials researchers involved in the development of practical bubble devices will find the book invaluable

2023-05-21

4/15

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Bubble Systems

2016-04-29

this monograph presents a systematic analysis of bubble system mathematics using the mechanics of two phase systems in non equilibrium as the scope of analysis the author introduces the thermodynamic foundations of bubble systems ranging from the fundamental starting points to current research challenges this book addresses a range of topics including description methods of multi phase systems boundary and initial conditions as well as coupling requirements at the phase boundary moreover it presents a detailed study of the basic problems of bubble dynamics in a liquid mass growth dynamically and thermally controlled collapse bubble pulsations bubble rise and breakup special emphasis is placed on bubble dynamics in turbulent flows the analysis results are used to write integral equations governing the rate of vapor generation condensation in non equilibrium flows thus creating a basis for solving a number of practical problems this book is the first to present a comprehensive theory of boiling shock with applications to problems of critical discharge and flashing under the fast decompression conditions reynolds analogy was the key to solving a number of problems in subcooled forced flow boiling the theoretical results of which led to easy to use design formulas this book is primarily aimed at graduate and post graduate students specializing in hydrodynamics or heat and mass transfer as well as research expert focused on two phase flow it will also serve as a comprehensive reference book for designers working in the field of power and aerospace technology

1985-1991 书籍

2017-05-23

1985-1991年间出版的有关气泡系统的书籍。这些书籍主要探讨了气泡在流体中的动力学行为，包括气泡的生长、振荡、破裂以及气泡在湍流中的特性。作者通过热力学和流体力学的方法，建立了描述两相系统（特别是气液系统）的非平衡态数学模型。书中详细讨论了气泡系统的边界条件和耦合要求，并提出了积分方程来描述蒸汽生成和凝结速率。特别强调了在湍流中气泡动力学的分析，并将其应用于亚冷强制对流沸腾中的实际问题。书中还介绍了Reynolds相似性在解决某些问题中的关键作用，为工程设计和航空航天技术领域的研究人员提供了重要的理论支持和设计公式。

Speculative Bubbles, Speculative Attacks, and Policy Switching

1994

the papers in this book are grouped into three sections the first on price bubbles is primarily financial the second on speculative attacks on exchange rate regimes is international in scope and the third on policy switching is concerned with monetary policy

Monetary Policy and the Housing Bubble

2021-09-15

ultrafine bubbles ufbs are gas filled bubbles with a diameter smaller than 1 μm they are sometimes called bulk nanobubbles because these are not on a solid surface but inside a bulk liquid water they are already being used in commercial processes such as cleaning and plant cultivation however many mysteries still exist with respect to ufbs such as mechanisms of stability oh radical formation and biological and medical effects this is the first book on ufbs that reviews research done on them it is helpful for those interested in the fundamentals of this emerging field and its applications including cleaning biological medical and dental students and researchers

Ultrafine Bubbles

2007-09-05

an interesting take on some factors that facilitate the development and bursting of bubbles in technology industries highly recommended choice financial market bubbles are recurring often painful reminders of the costs and benefits of capitalism while many books have studied financial manias and crises most fail to compare times of turmoil with times of stability in bubbles and crashes brent goldfarb and david a kirsch give us new insights into the causes of speculative booms and busts they identify a class of assets major technological innovations that can but does not necessarily produce bubbles this methodological twist is essential only by comparing similar events that sometimes lead to booms and busts can we ascertain the root causes of bubbles using a sample of eighty eight technologies spanning 150 years goldfarb and kirsch find that four factors play a key role in these episodes the degree of uncertainty surrounding a particular innovation the attentive presence of novice investors the opportunity to directly invest in companies that specialize in the technology and whether or not a technology is a good protagonist in a narrative goldfarb and kirsch consider the implications of their analysis for technology bubbles that may be in the works today offer tools for investors to identify whether a bubble is happening and propose policy measures that may mitigate the risks associated with future speculative episodes

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2019-02-19

the compendium of papers in this volume focuses on aspects of economic uncertainty financial instabilities and asset bubbles economic uncertainty is modeled in continuous time using the mathematical techniques of stochastic calculus a detailed treatment of important topics is provided including the existence and uniqueness of asymptotic economic growth the modeling of inflation and interest rates the decomposition of inflation and its volatility and the extension of the quantity theory of money to allow for randomness the reader is also introduced to the methods of chaotic dynamics and this methodology is applied to asset pricing the european equity markets and the multi

2023-05-21

financial memory is what creates the conditions for market collapse throughout the market is considered sacrosanct much to the regret of the losers by recognizing certain signs and understanding what causes them we can guard against future collapses and have a better hold on the country s and our own financial destiny

Bubbles and Crashes in Experimental Asset Markets

2019-11-20

magnetic bubbles are of interest to engineers because their properties can be used for important practical electronic devices and they are of interest to physicists because their properties are manifestations of intriguing physical principles at the same time the fabrication of useful configurations challenges the materials scientists and engineers a technology of magnetic bubbles has developed to the point where commercial products are being marketed in addition new discovery and development are driving this technology toward substantially lower costs and presumably broader application for all of these reasons there is a need to educate newcomers to this field in universities and in industry the purpose of this book is to provide a text for a one semester course that can be taught under headings of solid state physics materials science computer technology or integrated electronics it is expected that the student of anyone of these disciplines will be interested in each of the chapters of this book to some degree but may concentrate on some more than others depending on the discipline at the end of each chapter there is a brief summary which will serve as a reminder of the contents of the chapter but can also be read ahead of time to determine the depth of your interest in the chapter

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2024-05-24

why do rivers meander how do you make a glass sing what laws govern the shape of drops and bubbles what happens when we cook a roast all of these questions and many more are answered in this book a true invitation to wonder about aspects of our daily lives this book investigates the physics that underlies these observations the authors relate this to the most recent advances in the discipline and even provide an introduction to the mysteries of quantum mechanics and superconductivity while detailing the countless resulting applications from mri to quantum cryptography in each chapter the reader will discover the innumerable facets of a kaleidoscope of phenomena where ground breaking results rewarded by nobel prizes are presented side by side with seemingly insignificant experiments

Manias, Casinos, Bubbles and Crashes

2012-12-06

the third edition of bubbles drops and particles in non newtonian fluids provides comprehensive coverage of the scientific foundations and

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9/15

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the latest advances in particle motion in non newtonian media thoroughly updating and expanding its best selling predecessor this edition addresses numerical and experimental developments in non newtonian particulate systems it includes a new chapter on heat transfer in non newtonian fluids in the free and mixed convection regimes and thus covers forced convection regimes separately in this edition salient features demonstrates how dynamic behavior of single particles can yield useful information for modeling transport processes in complex multiphase flows addresses heat transfer in generalized newtonian fluid gnf visco plastic and visco elastic fluids throughout the book and outlines potential strategies for heat transfer enhancement provides a new detailed section on the effect of confinement on heat transfer from bluff bodies in non newtonian fluids written in a clear and concise manner this book remains an excellent handbook and reference it is essential reading for students and researchers interested in exploring particle motion in different types of non newtonian systems encountered in disciplines across engineering and the sciences

Magnetic Bubble Technology

2023-05-17

it is approximately 10 years since the third edition of heat pipes was published and the text is now established as the standard work on the subject this new edition has been extensively updated with revisions to most chapters the introduction of new working fluids and extended life test data have been taken into account in chapter 3 a number of new types of heat pipes have become popular and others have proved less effective this is reflected in the contents of chapter 5 heat pipes are employed in a wide range of applications including electronics cooling diecasting and injection moulding heat recovery and energy conservation de icing and manufacturing process temperature control and chapter 7 discusses some of the latest uses while retaining full data on those established for many years appendices have been updated as appropriate

Kaleidoscope Of Physics, The: From Soap Bubbles To Quantum Technologies

2023-08-31

2012 12 2013 2022 2014 2015 2020

Bubbles, Drops, and Particles in Non-Newtonian Fluids

2016-04-06

two multi instrumented terrier malemute rockets including ion mass spectrometers were launched from kwajalein on the nights of 17 and 23

july 1979 during equatorial spread f events detailed ionospheric structure and composition measurements were made between about 100 and 590 km the first flight penetrated six areas of bite outs spread over the range 265 to 560 km on upleg as well as several more depletions on downleg the strongest irregularities up to 90 percent depletion occurred at the altitudes of 265 to 285 km just above the f region ledge at 250 km there was no evidence of enhanced bottomside tracer ions no o2 or meteoric ions in any of the holes which were composed mostly of o and smaller amounts of n from the composition signatures the source of the bubbles appeared to be near the f region ledge within the higher altitude holes the n o ratios were smaller than the adjacent ionosphere ratios indicating not only that the source regions were near the ledge but also that the bubbles had initiated earlier when the ledge was at higher altitudes while o and n exhibited strong fluctuations no and o2 had fairly smooth profiles with scale heights similar to n2 and o2 respectively demonstrating steady state conditions and a stable neutral atmosphere with an exospheric temperature of about 1100k this suggests that neutral atmospheric turbulence is not a major source of the ionospheric irregularities time periods for ion chemical processes to achieve the observed composition are discussed in terms of bubble formation times and rise velocities

Heat Pipes

2014-06-20

Heat pipes are devices that transfer heat from one point to another by means of a phase change of a working fluid. They are used in a wide variety of applications, from spacecraft cooling to industrial heat exchangers. The basic principle is that the fluid evaporates at the hot end, travels to the cold end, condenses, and returns to the hot end. This cycle repeats continuously, allowing for efficient heat transfer. The text is mostly illegible due to heavy noise and artifacts.

1980

1980

this housing bubble book doesn't talk about what happened to people during the housing bubble it explains what a housing bubble is why they occur what ended them that they can't be prevented or controlled by regulation and how to prevent them in the future it shows that housing bubbles are always a bad thing for the economy and why the book can do all of that when other books and tv programs about the bubble couldn't because it is based upon the realization that a homomania occurred in which houses were not bought because they provided shelter and comfort but because they were appreciating in price very rapidly this caused a cessation of mortgage defaults this led to the creation of an investment that paid a very high return with zero apparent risk the investment produced no wealth but greatly increased consumption thereby impoverishing the economy explains mortgage backed securities including cdo's cdo's and synthetic cdo's shows who was and wasn't culpable

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2014-11-14

this book is about the thinking and courage to do what needs doing to innovate and build prosperity it is a book about the benefits of individual freedom schools teach children to color write and print between the lines observe the rules wrap their minds in a bubble of disciplines to discourage living out of a community box children learn to behave as members of a managed herd avoiding challenging that which is accepted and established by tradition in art however unusual deviant almost outlaw behavior is admired artists existing outside the limits of the herd can even improve the herd american innovators are artists causing prosperity from their thinking acting creating and inventive minds changing things for the better americans left the old world limitations behind where thinking and acting out of the box was discouraged creating a new world almost 400 years ago they proved individual freedom and creative elbowroom was the only source of prosperity which explains american exceptionalism and what this book is all about

Bubbles, Booms, and Busts

1872

the workshop on the cosmology of extra dimensions and varying fundamental constants which was part of jenam 2002 was held at the physics department of the university of porto fcup from the 3rd to the 5th of september 2002 it was regularly attended by about 110 participants of which 65 were officially registered in the vfc workshop while the others came from the rest of the jenam workshops there were also a few science correspondents from the national and international press during the 3 days of the scientific programme 8 invited reviews and 30 oral communications were presented the speakers came from 11 different european countries and also from argentina australia canada japan and the u s a there were also speakers from six portuguese research institutions and nine of the speak ers were ph d students the contributions are presented in these proceedings in chronological order the workshop brought together string theorists particle physicists theoretical and observational cosmologists relativists and observational astrophysicists it was generally agreed that this inter disciplinaryity was the greatest strength of the work shop since it provided people coming into this very recent topic from the various different backgrounds with an opportunity to understand each other s language and thereby gain a more solid understanding of the overall picture

The laurel wreath, ed. by miss McCaul

2013-11-07

historically bubbles have been understood primarily in financial economic terms in this exciting new work dholakia and turcan argue that bubbles are also a socio political and cultural phenomena with intense and accelerating interactions of engineered hype and feverish

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expectations

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2010-01-11

the journal on advanced studies in theoretical and experimental physics including related themes from mathematics

Bubbles, Boxes and Individual Freedom

2013-04-17

The Cosmology of Extra Dimensions and Varying Fundamental Constants

2014-02-24

Toward a Metatheory of Economic Bubbles: Socio-Political and Cultural Perspectives

Progress in Physics, vol. 2/2017

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