

YAKOV BORISOVICH ZELDOVICH

# Selected Works of Yakov Borisovich Zeldovich, Volume II

*Particles, Nuclei, and the Universe*



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# Selected Works Of Yakov Borisovich Zeldovich

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## **Selected Works Of Yakov Borisovich Zeldovich:**

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up for fellow scientists against Stalin Yulii B Khariton who ran the highly secretive Soviet nuclear weapons laboratory Arzamas 16 despite being Jewish and despite the fact that his father Boris had been sent to the labor camps And Andrei D Sakharov the father of the Soviet hydrogen bomb and a brilliant fighter for human rights for which he won the Nobel Peace Prize Along the way Hargittai shines a light on the harrowing conditions under which these brilliant researchers excelled Indeed in the post war period Stalin's anti-Semitism and ongoing anti-science measures devastated biology damaged chemistry and nearly destroyed physics The latter was saved only because Stalin realized that without physics and physicists there could be no nuclear weapons The extraordinary scientific talent nurtured by the Soviet regime belongs almost entirely to the past Buried Glory is both a fitting tribute to these great scientists and a fascinating account of scientific work behind the Iron Curtain

Science In Moscow: Memorials Of A Research Empire Istvan Hargittai, Magdolna Hargittai, 2019-08-20 The statuary and monuments catalogued in this impressive body of work are accompanied by descriptions of the subjects their work and achievements Chemistry World Moscow is the center of science and higher education of Russia and is also an international hub of science There have been milestone achievements of science in Russia and the Soviet Union especially in the areas of physics chemistry mathematics the conquest of space various technologies and medicine However the scientists and inventors often created in isolation and have become less known than their discoveries would justify At the same time there is no other city in the world that has so many memorials honoring scientists as Moscow There is a caveat in that political considerations have often influenced who was remembered and who was not This book presents statues memorial plaques and historical buildings Not only celebrated excellences are mentioned but also some of the greats that perished during the years of terror The book is full of human drama and 750 photos illustrate the narrative Science in Moscow follows Budapest Scientific and New York Scientific and is the third in the series about memorials of scientists in great cities of the world

*Zeldovich* R.A. Sunyaev, 2004-06-15 Ya B Zeldovich was certainly one of the greatest physicists and cosmologists of the 20th century This volume presents reminiscences of this exemplary academician providing biographical and historical insights from colleagues who knew him best Zeldovich's achievements are outlined including those in relativistic astrophysics and cosmology the

**Crystallization Technology Handbook** A. Mersmann, 2001-05-08 This handbook seeks to facilitate the selection design and operation of large scale industrial crystallizers that process crystals with the proper size distribution shape and purity sought This second edition offers results on direct contact cooling crystallization

*The Perfect Theory* Pedro G. Ferreira, 2018-06-01 One of the best popular accounts of how Einstein and his followers have been trying to explain the universe for decades Kirkus Reviews starred review Physicists have been exploring debating and questioning the general theory of relativity ever since Albert Einstein first presented it in 1915 This has driven their work to unveil the universe's surprising secrets even further and many believe more wonders remain hidden within the theory's tangle of equations waiting to be exposed In this sweeping narrative of science and culture an astrophysicist brings general relativity to life

through the story of the brilliant physicists mathematicians and astronomers who have taken up its challenge For these scientists the theory has been both a treasure trove and an enigma Einstein s theory which explains the relationships among gravity space and time is possibly the most perfect intellectual achievement of modern physics yet studying it has always been a controversial endeavor Relativists were the target of persecution in Hitler s Germany hounded in Stalin s Russia and disdained in 1950s America Even today PhD students are warned that specializing in general relativity will make them unemployable Still general relativity has flourished delivering key insights into our understanding of the origin of time and the evolution of all the stars and galaxies in the cosmos Its adherents have revealed what lies at the farthest reaches of the universe shed light on the smallest scales of existence and explained how the fabric of reality emerges Dark matter dark energy black holes and string theory are all progeny of Einstein s theory In the midst of a momentous transformation in modern physics as scientists look farther and more clearly into space than ever before The Perfect Theory exposes the greater relevance of general relativity showing us where it started where it has led and where it can still take us *Solar and Stellar Dynamos* Paul Charbonneau,2012-11-06 Astrophysical dynamos are at the heart of cosmic magnetic fields of a wide range of scales from planets and stars to entire galaxies This book presents a thorough step by step introduction to solar and stellar dynamos Looking first at the ultimate origin of cosmic seed magnetic fields the antagonists of field amplification are next considered resistive decay flux expulsion and flows ruled out by anti dynamo theorems Two kinematic flows that can act as dynamos are then studied the Roberts cell and the CP flow Mean field electrodynamics and derivation of the mean field dynamo equations lead to the alpha Omega dynamo the flux transport dynamo and dynamos based on the Babcock Leighton mechanism Alternatives to the mean field theory are also presented as are global MHD dynamo simulations Fluctuations and grand minima in the solar cycle are discussed in terms of dynamo modulations through stochastic forcing and nonlinear effects The book concludes with an overview of the major challenges in understanding stellar magnetic fields and their evolution in terms of various dynamo models global MHD simulations and fossil fields Each chapter is accompanied by an annotated bibliography guiding the readers to the relevant technical literature which may lead them to carry out their own research in the field of dynamo theory **Metastable Liquids** Pablo G. Debenedetti,2020-06-16 *Metastable Liquids* provides a comprehensive treatment of the properties of liquids under conditions where the stable state is a vapor a solid or a liquid mixture of different composition It examines the fundamental principles that govern the equilibrium properties stability relaxation mechanisms and relaxation rates of metastable liquids Building on the interplay of kinetics and thermodynamics that determines the thermophysical properties and structural relaxation of metastable liquids it offers an in depth treatment of thermodynamic stability theory the statistical mechanics of metastability nucleation spinodal decomposition supercooled liquids and the glass transition Both traditional topics such as stability theory and modern developments including modern theories of nucleation and the properties of supercooled and glassy water are treated in

detail An introductory chapter illustrates with numerous examples the importance and ubiquity of metastable liquids Examples include the ascent of sap in plants the strategies adopted by many living organisms to survive prolonged exposure to sub freezing conditions the behavior of proteins at low temperatures metastability in mineral inclusions ozone depletion the preservation and storage of labile biochemicals and the prevention of natural gas clathrate hydrate formation All mathematical symbols are defined in the text and key equations are clearly explained More complex mathematical explanations are available in the appendixes

**Atmospheric Chemistry** Detlev Möller, 2022-05-09 The work in your hand contains three main chapters covering the chemistry of the condensed phase in the atmosphere first the different forms of atmospheric waters precipitation fog and clouds dew and secondly dust now mostly termed particulate matter and more scientifically atmospheric aerosol A third section treats the gases in the atmosphere An introductory chapter covers the roots of the term atmospheric chemistry in its relations to chemistry in general and biogeochemistry as the chemistry of the climate system Furthermore a brief overview of understanding chemical reactions in aqueous and gaseous phase is given It is my aim to pay respect to all persons who studied the substances in the air to those who made small and to them who made giant contributions for the progress in atmospheric science I m not a historian who is able to present the past from a true perspective of their time this also would not be my aim If possible however I try to interpret the past almost limited to experimental findings in the nineteenth century through current values without dismissal of the problems and ideas of earlier scientists In this way it is possible to draw some ideas on the historical chemical state of the air Hence I name this voyage critical However nowhere in this book it is my attention to express my criticism to colleagues and scientific ancestors Great scientists too were subject to errors doing science consists from the permanent loop observation interpretation conclusion and again testing against new observation If this volume can contribute more than to be a nice story on atmospheric chemistry then hopefully it inspires the reader to more critical reading of scientific publications and not to forget the older one 2022 ASLI Choice Awards Winner The book won the annual Atmospheric Science Librarians International ASLI award For details see here <https://www.aslionline.org/wp/2022/asli-choice-awards-winners>

**Perspectives and Problems in Nonlinear Science** Ehud Kaplan, Jerrold E. Marsden, Katepalli R.

Sreenivasan, 2012-12-06 Lawrence Sirovich will turn seventy on March 1 2003 Larry s academic life of over 45 years at the Courant Institute Brown University Rockefeller University and the Mount Sinai School of Medicine has touched many people and several disciplines from fluid dynamics to brain theory His contributions to the kinetic theory of gases methods of applied mathematics theoretical fluid dynamics hydrodynamic turbulence the biophysics of vision and the dynamics of neuronal populations represent the creative work of an outstanding scholar who was stimulated mostly by insatiable curiosity As a scientist Larry has consistently offered fresh outlooks on classical and difficult subjects and moved into new fields effortlessly He delights in what he knows and does and sets no artificial boundaries to the range of his inquiry Among the

more than fifty or so Ph D students and post docs that he has mentored many continue to make first rate contributions themselves and hold academic positions in the US and elsewhere Larry s scientific collaborators are numerous and distinguished Those of us who have known him well will agree that Larry s charm above all is his taste wit and grace under fire Larry has contributed immensely to mathematics publishing He began his career with Springer by founding the Applied Mathematical Sciences series together with Fritz John and Joe LaSalle some 30 years ago Later he co founded the Texts in Applied Mathematics series and more recently the Interdisciplinary Applied Mathematics series

**Stalin's Great Science**  
A. B. Kozhevnikov, 2004 World class science and technology developed in the Soviet Union during Stalin s dictatorial rule under conditions of political violence lack of international contacts and severe restrictions on the freedom of information Stalin s Great Science The Times and Adventures of Soviet Physicists is an invaluable book that investigates this paradoxical success by following the lives and work of Soviet scientists including Nobel Prize winning physicists Kapitza Landau and others throughout the turmoil of wars revolutions and repression that characterized the first half of Russia s twentieth century The book examines how scientists operated within the Soviet political order communicated with Stalinist politicians built a new system of research institutions and conducted groundbreaking research under extraordinary circumstances Some of their novel scientific ideas and theories reflected the influence of Soviet ideology and worldview and have since become accepted universally as fundamental concepts of contemporary science In the process of making sense of the achievements of Soviet science the book dismantles standard assumptions about the interaction between science politics and ideology as well as many dominant stereotypes mostly inherited from the Cold War about Soviet history in general Science and technology were not only granted unprecedented importance in Soviet society but they also exerted a crucial formative influence on the Soviet political system itself Unlike most previous studies Stalin s Great Science recognizes the status of science as an essential element of the Soviet polity and explores the nature of a special relationship between experts scientists and engineers and communist politicians that enabled the initial rise of the Soviet state and its mature accomplishments until the pact eroded in later years undermining the communist regime from within

**A Physicochemical Theory of Tip Growth**  
Pierre Pelce, 2019-11-26 A Physicochemical Theory of Tip Growth presents the latest information on experimental observations on living organisms including unicellular algae hyphae and neurons These theories are analogous to the ones developed for the growth of nonliving matter as already exposed by the author in the book Presents the theory of growth and form of nonliving matter Provides discussions on simple unstable flat or spherical shapes which restabilize in more robust pointed shapes Includes characteristics that are typical of the morphogenesis of living matter

**Supercritical Fluids**  
E. Kiran, Pablo G. Debenedetti, Cor J. Peters, 2012-12-06 Supercritical fluids are neither gas nor liquid but can be compressed gradually from low to high density and they are therefore interesting and important as tunable solvents and reaction media in the chemical process industry By adjusting the density the properties of these fluids can be customised and manipulated for a

given process physical or chemical transformation Separation and processing using supercritical solvents such as CO<sub>2</sub> are currently on line commercially in the food essential oils and polymer industries Many agencies and industries are considering the use of supercritical water for waste remediation Supercritical fluid chromatography represents another major analytical application Significant advances have recently been made in materials processing ranging from particle formation to the creation of porous materials The chapters in this book provide tutorial accounts of topical areas centred around 1 phase equilibria thermodynamics and equations of state 2 critical behaviour crossover effects 3 transport and interfacial properties 4 molecular modelling computer simulation 5 reactions spectroscopy 6 phase separation kinetics 7 extractions 8 applications to polymers pharmaceuticals natural materials and chromatography 9 process scale up Aerosol Science Ian Colbeck, Mihalis Lazaridis, 2014-02-03 AEROSOL SCIENCE TECHNOLOGY AND APPLICATIONS Aerosols influence many areas of our daily life They are at the core of environmental problems such as global warming photochemical smog and poor air quality They can also have diverse effects on human health where exposure occurs in both outdoor and indoor environments However aerosols can have beneficial effects too the delivery of drugs to the lungs the delivery of fuels for combustion and the production of nanomaterials all rely on aerosols Advances in particle measurement technologies have made it possible to take advantage of rapid changes in both particle size and concentration Likewise aerosols can now be produced in a controlled fashion Reviewing many technological applications together with the current scientific status of aerosol modelling and measurements this book includes Satellite aerosol remote sensing The effects of aerosols on climate change Air pollution and health Pharmaceutical aerosols and pulmonary drug delivery Bioaerosols and hospital infections Particle emissions from vehicles The safety of emerging nanomaterials Radioactive aerosols tracers of atmospheric processes With the importance of this topic brought to the public's attention after the eruption of the Icelandic volcano Eyjafjallaj kull this book provides a timely concise and accessible overview of the many facets of aerosol science

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