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Recent Soviet Contributions To Mathemati

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The Lefschetz Centennial Conference. Part I: Proceedings on Algebraic Geometry D. Sundararaman, 1986
Contains many of the papers in the area of algebraic geometry presented at the 1984 Solomon Lefschetz Centennial Conference held in Mexico City This work also focuses on the areas of algebraic topology and differential equations where Lefschetz made significant contributions

Mathematics across the Iron Curtain Christopher Hollings, 2014-07-16 The theory of semigroups is a relatively young branch of mathematics with most of the major results having appeared after the Second World War This book describes the evolution of algebraic semigroup theory from its earliest origins to the establishment of a full fledged theory Semigroup theory might be termed Cold War mathematics because of the time during which it developed There were thriving schools on both sides of the Iron Curtain although the two sides were not always able to communicate with each other or even gain access to the other s publications A major theme of this book is the comparison of the approaches to the subject of mathematicians in East and West and the study of the extent to which contact between the two sides was possible

Mathematical Optimization Techniques Richard Bellman, 2024-03-29 This title is part of UC Press s Voices Revived program which commemorates University of California Press s mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1963

Creators of Mathematical and Computational Sciences Ravi P Agarwal, Syamal K Sen, 2014-11-11 The book records the essential discoveries of mathematical and computational scientists in chronological order following the birth of ideas on the basis of prior ideas ad infinitum The authors document the winding path of mathematical scholarship throughout history and most importantly the thought process of each individual that resulted in the mastery of their subject The book implicitly addresses the nature and character of every scientist as one tries to understand their visible actions in both adverse and congenial environments The authors hope that this will enable the reader to understand their mode of thinking and perhaps even to emulate their virtues in life

Use of Mathematical Literature A.R. Dorling, 2014-05-20 Use of Mathematical Literature discusses the bibliographic concerns of mathematical literature The book is comprised of 14 chapters that cover characteristics of mathematical literature and provide reviews of some of the major literature in various mathematical fields The text first discusses the role of the literature in mathematics and then proceeds to tackling major organizations journals and reference materials Next the book provides critical accounts of the major literature in various mathematical fields such as combinatorics topology and mathematical programming The book will be of great use to students practitioners and researchers of mathematics Other profession handling math literature such as teachers librarians and translators will also find this book invaluable

Hearings, Reports and Prints of the Senate Committee on Aeronautical and Space Sciences United States. Congress. Senate. Committee on Aeronautical and Space Sciences, 1965

Scientific Communication Across the Iron Curtain Christopher D. Hollings, 2015-12-12 This monograph provides a concise introduction to the tangled issues of communication between Russian and Western scientists during the Cold War. It details the extent to which mid twentieth century researchers and practitioners were able to communicate with their counterparts on the opposite side of the Iron Curtain. Drawing upon evidence from a range of disciplines a decade by decade account is first given of the varying levels of contact that existed via private correspondence and conference attendance. Next the book examines the exchange of publications and the availability of one side's work in the libraries of the other. It then goes on to compare general language abilities on opposite sides of the Iron Curtain with comments on efforts in the West to learn Russian and the systematic translation of Russian work. In the end author Christopher Hollings argues that physical accessibility was generally good in both directions but that Western scientists were afflicted by greater linguistic difficulties than their Soviet counterparts whose major problems were bureaucratic in nature. This volume will be of interest to historians of Cold War science particularly those who study communications and language issues. In addition it will be an ideal starting point for anyone looking to know more about this fascinating area. [Soviet Science on the Edge of Reform](#)

Harley D. Balzer, 2019-06-04 It is my sincere hope that the reforms currently being introduced in the USSR will render much of this book obsolete. Yet even if perestroika brings significant change to the Soviet Union historians will want a record of what existed before. After four years it has become apparent that perestroika is a painful long term process. In such a large and diverse country even the reforms that are successful cannot take place everywhere at once. One major goal in publishing this book is to make data from a major interview project on Soviet science and technology available to a broader audience. Despite the changes taking place many of the features illuminated by these unique data persist. [Biographical Memoirs](#)

National Academy of Sciences, 1992-02-01 Biographic Memoirs Volume 61 contains the biographies of deceased members of the National Academy of Sciences and bibliographies of their published works. Each biographical essay was written by a member of the Academy familiar with the professional career of the deceased. For historical and bibliographical purposes these volumes are worth returning to time and again. *Theory of Oscillators* A. A. Andronov, A. A. Vitt, S. E. Khaikin, 2013-10-22 Theory of Oscillators presents the applications and exposition of the qualitative theory of differential equations. This book discusses the idea of a discontinuous transition in a dynamic process. Organized into 11 chapters this book begins with an overview of the simplest type of oscillatory system in which the motion is described by a linear differential equation. This text then examines the character of the motion of the representative point along the hyperbola. Other chapters consider examples of two basic types of non linear non conservative systems namely dissipative systems and self oscillating systems. This book discusses as well the discontinuous self oscillations of a symmetrical multi vibrator neglecting anode reaction. The final chapter deals with the immense practical importance of the stability of physical systems containing energy sources particularly control systems. This book is a valuable resource for electrical engineers scientists.

physicists and mathematicians *U.S. Government Research Reports* ,1959 **How to Find Out in Mathematics** John E. Pemberton,2014-05-15 *How to Find Out in Mathematics* A Guide to Sources of Information Second Revised Edition presents updated topics about probability and statistics dictionaries and encyclopedias computing and mathematical education The book discusses the modifications of the content of professional actuarial examinations the assimilation of modern mathematics into the school curriculum and the establishment of government departments to administer financial support for mathematical research The text also describes the efforts to improve communication between mathematicians i e the inception of the Mathematical Offprint Service and the publication of Contents of Contemporary Mathematical Journals by the American Mathematical Society People who are studying teaching or applying mathematics will find the book helpful

Current Developments in the Interface: Economics, Econometrics, Mathematics Michiel Hazewinkel,A.H.G. Rinnooy Kan,2012-12-06 This book contains the Proceedings of a symposium that was held in Rotterdam from 12 to 15 January 1982 to celebrate the 25 th anniversary of the Econometric Institute of the Erasmus University The subject of the symposium developments in econometrics and related fields was particularly appropriate for the occasion In 25 years the research carried out at the Econometric Institute developed from the original seminal work in econometrics carried out under the supervision of the first director H Theil to embrace related areas such as mathematical economics operations research systems theory and other branches of mathematics statistics and probability theory To review the state of the art in these areas thirteen leading experts were invited to deliver a lecture at the symposium their contributions form the backbone of this book Together they illustrate the wide range and scope of the current scientific activity in these fields The thirteen authoritative surveys should be of great value to researchers and students alike who want to become acquainted with recent ideas current trends and future developments in their chosen fields of interest Each contribution is preceded by an introduction to the author and his work and followed by a summary of the discussion that followed the lecture A special chapter is devoted to the history of the Econometric Institute *History of Nonlinear Oscillations Theory in France (1880-1940)* Jean-Marc Ginoux,2017-04-18 This book reveals the French scientific contribution to the mathematical theory of nonlinear oscillations and its development The work offers a critical examination of sources with a focus on the twentieth century especially the period between the wars Readers will see that contrary to what is often written France s role has been significant Important contributions were made through both the work of French scholars from within diverse disciplines mathematicians physicists engineers and through the geographical crossroads that France provided to scientific communication at the time This study includes an examination of the period before the First World War which is vital to understanding the work of the later period By examining literature sources such as periodicals on the topic of electricity from that era the author has unearthed a very important text by Henri Poincaré dating from 1908 In this work Poincaré applied the concept of limit cycle which he had introduced in 1882 through his own works to study the stability of the oscillations of a

device for radio engineering The discovery of this text means that the classical perspective of the historiography of this mathematical theory must be modified Credit was hitherto attributed to the Russian mathematician Andronov from correspondence dating to 1929 In the newly discovered Poincaré text there appears to be a strong interaction between science and technology or more precisely between mathematical analysis and radio engineering This feature is one of the main components of the process of developing the theory of nonlinear oscillations Indeed it is a feature of many of the texts referred to in these chapters as they trace the significant developments to which France contributed Scholars in the fields of the history of mathematics and the history of science and anyone with an interest in the philosophical underpinnings of science will find this a particularly engaging account of scientific discovery and scholarly communication from an era full of exciting developments

Advanced Topics in Control Systems Theory Antonio Loria, Françoise Lamnabhi-Lagarrigue, Elena Panteley, 2006-02-09 This book includes selected contributions by lecturers at the third annual Formation d'Automatique de Paris It provides a well integrated synthesis of the latest thinking in nonlinear optimal control observer design stability analysis and structural properties of linear systems without the need for an exhaustive literature review The internationally known contributors to this volume represent many of the most reputable control centers in Europe

Bulletin of the American Mathematical Society American Mathematical Society, 1976

To Examine U.S.-Soviet Science and Technology Exchanges United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on International Scientific Cooperation, 1987

Differential and Integral Inequalities: Theory and Applications V. Lakshmikantham, S. Leela, 1969 This volume constitutes the first part of a monograph on theory and applications of differential and integral inequalities The entire work as a whole is intended to be a research monograph a guide to the literature and a textbook for advanced courses The unifying theme of this treatment is a systematic development of the theory and applications of differential inequalities as well as Volterra integral inequalities The main tools for applications are the norm and the Lyapunov functions Familiarity with real and complex analysis elements of general topology and functional analysis and differential and integral equations is assumed

Stabilizing Dynamics E. Roy Weintraub, 1991-04-26 This work is concerned with the ways in which the talk of the 1930s evolved into technical analysis of some mathematical structures It describes the context for the history of that change and shows how the history of modern economics can be seen as a confluence of several disparate traditions

Recent Soviet Contributions to Mathematics J. P. Lasalle (ed), 1962

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