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The Role of Technology in CSCL Ulrich H. Hoppe 2007-06-26 This book relates contemporary information and communication technologies (ICT) to their specific teaching and learning functions, including how ICT is appropriated for and by educational or learning communities. The technological "hot spots" of interest in this book include: groupware or multi-user technologies such as group archives or synchronous co-construction environments, embedded interactive technologies in the spirit of ubiquitous computing, and modeling tools based on rich representations.

Quantum Systems, Channels, Information Alexander S. Holevo 2013-01-01 The subject of this book is theory of quantum system presented from information science perspective. The central role is played by the concept of quantum channel and its entropic and information characteristics. Quantum information theory gives a key to understanding elusive phenomena of quantum world and provides a background for development of experimental techniques that enable measuring and manipulation of individual quantum systems. This is important for the new efficient applications such as quantum computing, communication and cryptography. Research in the field of quantum informatics, including quantum information theory, is in progress in leading scientific centers throughout the world. This book gives an accessible, albeit mathematically rigorous and self-contained introduction to quantum information theory, starting from primary structures and leading to fundamental results and to exiting open problems.

The Antibiotic Era Scott H. Podolsky 2014-12-22 In *The Antibiotic Era*, physician-historian Scott H. Podolsky narrates the far-reaching history of antibiotics, focusing particularly on reform efforts that attempted to fundamentally change how antibiotics are developed and prescribed. This sweeping chronicle reveals the struggles faced by crusading reformers from the 1940s onward as they advocated for a rational therapeutics at the crowded intersection of bugs and drugs, patients and doctors, industry and medical academia, and government and the media. During the post–World War II "wonder drug" revolution, antibiotics were viewed as a panacea for mastering infectious disease. But from the beginning, critics raised concerns about irrational usage and overprescription. The first generation of antibiotic reformers focused on regulating the drug industry. The reforms they set in motion included the adoption of controlled clinical trials as the ultimate arbiters of therapeutic efficacy, the passage of the Kefauver-Harris amendments mandating proof of drug efficacy via well-controlled studies, and the empowering of the Food and Drug Administration to remove inefficacious drugs from the market. Despite such victories, no entity was empowered to rein in physicians who inappropriately prescribed, or overly prescribed, approved drugs. Now, in an era of emerging bugs and receding drugs, discussions of antibiotic resistance focus on the need to develop novel antibiotics and the need for more appropriate prescription practices in the face of pharmaceutical marketing, pressure from patients, and the structural constraints that impede rational delivery of antibiotics worldwide. Concerns about the enduring utility of antibiotics—indeed, about a post-antibiotic era—are widespread, as evidenced by reports from the Centers for Disease Control and Prevention, academia, and popular media alike. Only by understanding the historical forces that have shaped our current situation, Podolsky argues, can we properly understand and frame our choices moving forward.

Mechanics of Continuous Media L I Sedov 1997-06-01 This volume is written by Academician Sedov who is considered by many as the leading scientist in mechanics in the USSR. This latest fourth edition helps the reader in a relatively short time to master and acquire fully the essence of many geometrical and mechanical theories. Contents: Volume 1:Kinematics of a Deformable MediumDynamic Concepts and Dynamic Equations of Continuum MechanicsThe Closed Systems of Mechanical Equations for the Simplest Models of Continuous Media. Some Results from Tensor AnalysisBasic Thermodynamic Concepts and EquationsBasic Concepts and Equations of ElectrodynamicsOn the Formulation of Problems in Continuum MechanicsNonlinear Tensor Functions of Several Tensor ArgumentsModels of Continuous Media with Internal Degrees of FreedomVolume 2:HydrodynamicsTheory of ElasticityTheory of PlasticityIntroduction to the Plane Problems of the Theory of Elasticity and the Theory of Cracks Readership: Scientists/researchers of mechanical engineering, applied physics and theoretical physicists.

Na bocznych drogach Europy Andrzej Józef Madera 1994

Statistical Structure of Quantum Theory Alexander S. Holevo 2003-07-01 New ideas on the mathematical foundations of quantum mechanics, related to the theory of quantum measurement, as well as the emergence of quantum optics, quantum electronics and optical communications have shown that the statistical structure of quantum mechanics deserves special investigation. In the meantime it has become a mature subject. In this book, the author, himself a leading

researcher in this field, surveys the basic principles and results of the theory, concentrating on mathematically precise formulations. Special attention is given to the measurement dynamics. The presentation is pragmatic, concentrating on the ideas and their motivation. For detailed proofs, the readers, researchers and graduate students, are referred to the extensively documented literature.

Handbook of Research on Writing and Composing in the Age of MOOCs Monske, Elizabeth A. 2016-11-29 The development of online learning environments has enhanced the availability of educational opportunities for students. By implementing effective curriculum strategies, this ensures proper quality and instruction in online settings. The Handbook of Research on Writing and Composing in the Age of MOOCs is a critical reference source that overviews the current state of larger scale online courses and the latest competencies for teaching writing online. Featuring comprehensive coverage across a range of perspectives on teaching in virtual classrooms, such as MOOC delivery models, digital participation, and user-centered instructional design, this book is ideal for educators, professionals, practitioners, academics, and researchers interested in the latest material on writing and composition strategies for online classrooms.

Colonizing Russia's Promised Land Aileen E. Friesen 2020-02-20 *Colonizing Russia's Promised Land: Orthodoxy and Community on the Siberian Steppe*, examines how Russian Orthodoxy acted as a basic building block for constructing Russian settler communities in current-day southern Siberia and northern Kazakhstan.

Culture of the Future Lynn Mally 1990-01-01 "Mally's book moves the study of an important revolutionary cultural experiment from the realm of selective textual analysis to wide-ranging social and institutional history. It reveals vividly the social-cultural tensions and values inherent in the Russian revolutionary period, and adds authoritatively to the rapidly emerging literature on cultural revolution in Russia and in the modern world at large."--Richard Stites, Georgetown University "Mally's book moves the study of an important revolutionary cultural experiment from the realm of selective textual analysis to wide-ranging social and institutional history. It reveals vividly the social-cultural tensions and values inherent in the Russian revolutionary period, and adds authoritatively to the rapidly emerging literature on cultural revolution in Russia and in the modern world at large."--Richard Stites, Georgetown University

Between Prometheism and Realpolitik Jan Jacek Bruski 2016-12-05 The Treaty of Riga of March 1921 did not signify real peace. It was soon followed by the outbreak of a Polish-Soviet cold war, which in the early 1920s threatened to reach a boiling point. One of the salient fronts on which it was fought was Ukraine and the Ukrainian question. The means by which it was waged – first by Poland, and subsequently, more successfully, by the Soviets – was by attempts to stir up centrifugal tendencies on enemy territory, leading eventually to the splitting up of the neighboring state along its national seams. Polish-Soviet rivalry over Ukraine had flared up at the Riga peace conference. In the following years both antagonists struggled to win over the sympathies of Ukrainians living on either side of the frontier River Zbrucz (Zbruch) and dispersed in various émigré centers, and the weapons employed were propaganda, diplomacy, nationalities policy, economic projects, political subterfuge, and armed irredentism. Jan Jacek Bruski's book addresses the first, very important phase of this Polish-Soviet tussle.

Complex Analytic Sets E.M. Chirka 2012-12-06 The theory of complex analytic sets is part of the modern geometrical theory of functions of several complex variables. A wide circle of problems in multidimensional complex analysis, related to holomorphic functions and maps, can be reformulated in terms of analytic sets. In these reformulations additional phenomena may emerge, while for the proofs new methods are necessary. (As an example we can mention the boundary properties of conformal maps of domains in the plane, which may be studied by means of the boundary properties of the graphs of such maps.) The theory of complex analytic sets is a relatively young branch of complex analysis. Basically, it was developed to fulfill the need of the theory of functions of several complex variables, but for a long time its development was, so to speak, within the framework of algebraic geometry - by analogy with algebraic sets. And although at present the basic methods of the theory of analytic sets are related with analysis and geometry, the foundations of the theory are expounded in the purely algebraic language of ideals in commutative algebras. In the present book I have tried to eliminate this noncorrespondence and to give a geometric exposition of the foundations of the theory of complex analytic sets, using only classical complex analysis and a minimum of algebra (well-known properties of polynomials of one variable). Moreover, it must of course be taken into consideration that algebraic geometry is one of the most important domains of application of the theory of analytic sets, and hence a lot of attention is given in the present book to algebraic sets.

Publishers' International ISBN Directory International ISBN Agency 1998 PIID is conveniently divided into three easy-access sections: Geographical and ISBN

sections provide complete contact information for each publisher, while an Alphabetical Index identifies the publisher's location. (Handbook of International Documentation and Information, Vol. 7)

International GAAP 2020 Ernst & Young LLP 2020-01-07 International GAAP 2020 is a comprehensive guide to interpreting and implementing International Financial Reporting Standards (IFRS), setting IFRS in a relevant business context, and providing insights into how complex practical issues should be resolved in the real world of global financial reporting. This book is an essential tool for anyone applying, auditing, interpreting, regulating, studying, or teaching IFRS.

Written by financial reporting professionals from around the world, this guide to reporting under IFRS provides a global perspective, clearly explaining complex technical accounting issues and setting IFRS in a practical context. Numerous worked examples and hundreds of illustrations from the published financial reports of major listed companies from around the world are included. The 2020 edition has been fully revised and updated with information on the latest IFRS changes and current issues.

Nonlinear Waves in Elastic Media A.G. Kulikovskii 1995-08-31 Nonlinear Waves in Elastic Media explores the theoretical results of one-dimensional nonlinear waves, including shock waves, in elastic media. It is the first book to provide an in-depth and comprehensive presentation of the nonlinear wave theory while taking anisotropy effects into account. The theory is completely worked out and draws on 15 years of research by the authors, one of whom also wrote the 1965 classic Magnetohydrodynamics. Nonlinear Waves in Elastic Media emphasizes the behavior of quasitransverse waves and analyzes arbitrary discontinuity disintegration problems, illustrating that the solution can be non-unique - a surprising result. The solution is shown to be especially interesting when anisotropy and nonlinearity effects interact, even in small-amplitude waves. In addition, the text contains an independent mathematical chapter describing general methods to study hyperbolic systems expressing the conservation laws. The theoretical results described in Nonlinear Waves in Elastic Media allow, for the first time, discovery and interpretation of many new peculiarities inherent to the general problem of discontinuous solutions and so provide a valuable resource for advanced students and researchers involved with continuum mechanics and partial differential equations.

Probabilistic and Statistical Aspects of Quantum Theory Alexander S. Holevo 2011-05-05 This book is devoted to aspects of the foundations of quantum mechanics in which probabilistic and statistical concepts play an essential role. The main part of the book concerns the quantitative statistical theory of quantum measurement, based on the notion of positive operator-valued measures. During the past years there has been substantial progress in this direction, stimulated to a great extent by new applications such as Quantum Optics, Quantum Communication and high-precision experiments. The questions of statistical interpretation, quantum symmetries, theory of canonical commutation relations and Gaussian states, uncertainty relations as well as new fundamental bounds concerning the accuracy of quantum measurements, are discussed in this book in an accessible yet rigorous way. Compared to the first edition, there is a new Supplement devoted to the hidden variable issue. Comments and the bibliography have also been extended and updated.

Geospatial Thinking Marco Painho 2010-07-20 For the fourth consecutive year, the Association of Geographic Information Laboratories for Europe (AGILE) promoted the edition of a book with the collection of the scientific papers that were submitted as full-papers to the AGILE annual international conference. Those papers went through a three competitive review process. The 13 AGILE conference call for full-papers of original and unpublished fundamental scientific research resulted in 54 submissions, of which 21 were accepted for publication in this volume (acceptance rate of 39%). Published in the Springer Lecture Notes in Geoinformation and Cartography, this book is associated to the 13 AGILE Conference on Geographic Information Science, held in 2010 in Guimarães, Portugal, under the title "Geospatial Thinking". The efficient use of geospatial information and related technologies assumes the knowledge of concepts that are fundamental components of Geospatial Thinking, which is built on reasoning processes, spatial conceptualizations, and representation methods. Geospatial Thinking is associated with a set of cognitive skills consisting of several forms of knowledge and cognitive operators used to transform, combine or, in any other way, act on that same knowledge. The scientific papers published in this volume cover an important set of topics within Geoinformation Science, including: Representation and Visualisation of Geographic Phenomena; Spatiotemporal Data Analysis; Geo-Collaboration, Participation, and Decision Support; Semantics of Geoinformation and Knowledge Discovery; Spatiotemporal Modelling and Reasoning; and Web Services, Geospatial Systems and Real-time Applications.

Rewriting History in Soviet Russia R. Markwick 2001-02-01 This book explores the political significance of the development of historical revisionism in the USSR under Khrushchev in the wake of the Twentieth Congress of the CPSU and its demise with the onset of the 'period of stagnation' under Brezhnev. On the basis of intensive interviews and original manuscript material, the book demonstrates that the vigorous rejuvenation of historiography undertaken by Soviet historians in the 1960s conceptually cleared the way for and fomented the dramatic upheaval in Soviet historical writing occasioned by the advent of perestroika.

Higher Education in Russia Yaroslav Kuzminov 2022-09-13 Higher Education in Russia is a must-read for scholars of higher education and Russian history alike.

Risk Assessment and Financial Regulation in Emerging Markets' Banking Alexander M. Karminsky 2021-05-11 This book describes various approaches in modelling financial risks and compiling ratings. Focusing on emerging markets, it illustrates how risk assessment is performed and analyses the use of machine learning methods for financial risk assessment and measurement. It not only offers readers insights into the differences between emerging and developed

markets, but also helps them understand the development of risk management approaches for banks. Highlighting current problems connected with the evaluation and modelling of financial risks in the banking sector of emerging markets, the book presents the methodologies applied to credit and market financial risks and integrated and payment risks, and discusses the outcomes. In addition it explores the systemic risks and innovations in banking and risk management by analyzing the features of risk measurement in emerging countries. Lastly, it demonstrates the aggregation of approaches to financial risk for emerging financial markets, comparing the experiences of various countries, including Russia, Belarus, China and Brazil.

Combat and Genocide on the Eastern Front Jeff Rutherford 2014-07-10 The contradictory behaviour of the German Army in the east resulted from its adherence to the concept of military necessity.

Mathematical Aspects of Numerical Solution of Hyperbolic Systems A.G. Kulikovskii 2000-12-21 This important new book sets forth a comprehensive description of various mathematical aspects of problems originating in numerical solution of hyperbolic systems of partial differential equations. The authors present the material in the context of the important mechanical applications of such systems, including the Euler equations of gas dynamics, magnetohydrodynamics (MHD), shallow water, and solid dynamics equations. This treatment provides-for the first time in book form-a collection of recipes for applying higher-order non-oscillatory shock-capturing schemes to MHD modelling of physical phenomena. The authors also address a number of original "nonclassical" problems, such as shock wave propagation in rods and composite materials, ionization fronts in plasma, and electromagnetic shock waves in magnets. They show that if a small-scale, higher-order mathematical model results in oscillations of the discontinuity structure, the variety of admissible discontinuities can exhibit disperse behavior, including some with additional boundary conditions that do not follow from the hyperbolic conservation laws. Nonclassical problems are accompanied by a multiple nonuniqueness of solutions. The authors formulate several selection rules, which in some cases easily allow a correct, physically realizable choice. This work systematizes methods for overcoming the difficulties inherent in the solution of hyperbolic systems. Its unique focus on applications, both traditional and new, makes Mathematical Aspects of Numerical Solution of Hyperbolic Systems particularly valuable not only to those interested in the development of numerical methods, but to physicists and engineers who strive to solve increasingly complicated nonlinear equations.

Intermediate Russian John Murray 2013-06-26 Intermediate Russian provides a reference grammar and related exercises in one volume. Varied texts from Russian sources give an insight into contemporary Russian society and culture. Features include: * texts and exercises reflecting contemporary Russian * concise grammar explanations * full exercise key * detailed index. Intermediate Russian, and its sister volume, Basic Russian, are ideal both for independent study and use in class. Together the books provide a compendium of the essentials of Russian grammar.

Soviet Women on the Frontline in the Second World War R. Markwick 2012-06-26 This is the first comprehensive study in English of Soviet women who fought against the genocidal, misogynist, Nazi enemy on the Eastern Front during the Second World War. Drawing on a vast array of original archival, memoir, and published sources, this book captures the everyday experiences of Soviet women fighting, living and dying on the front.

Teaching With a Social, Emotional, and Cultural Lens Nancy Louri Markowitz 2020-05-19 Teaching with a Social, Emotional, and Cultural Lens goes beyond existing social emotional learning programs to introduce a new framework for integrating the development of key skills needed for academic success into daily classroom practice. The framework spells out the competencies, processes, and strategies that effective P-12 educators need to employ in order to build students' social and emotional learning. The book is based on a decade of pioneering work by the Center for Reaching and Teaching the Whole Child at San José State University, building on the work of the Collaborative for Academic, Social, and Emotional Learning (CASEL) and on research about effective teaching and learning and culturally responsive practices. Teaching with a Social, Emotional, and Cultural Lens serves as a critical roadmap for educators, whether they are university faculty searching for how to bring a social, emotional, and cultural lens into their methods or foundations course and field work experiences, or classroom teachers hoping to infuse critical skill building into the everyday academic learning that is the traditional focus of schools.

Applique Made Easy Karen Costello Soltys 1998-12-15 Your Step-by-Step Guide to Appliqué Made Easy Now you can find all the information you need about appliqué in one handy reference! Over 270 color photographs show you how to get the beautiful results you want, whether appliquéing by hand or by machine. Here's just a preview of what you'll find inside: * The secret to perfect hand appliqué stitches * Satin stitch, blanket stitch, and other decorative looks to finish fusible appliqués by machine * Invisible machine appliqué that looks as if it were done by hand (but takes a fraction of the time) * Stunning three-dimensional appliqué, including ruching, folding, and more * Folk art appliqué that's fast and fun * Colorful molas, an ethnic appliqué style, made quick and easy on the machine And more creative ways to have fun with appliqué. Tips and tricks that make appliqué totally trouble-free...even for first-timers.

Natural Language Processing in Artificial Intelligence -- NLPinAI 2021 Roussanka Loukanova 2022 The book covers theoretical work, approaches, applications, and techniques for computational models of information, language, and reasoning. Computational and technological developments that incorporate natural language are proliferating. Adequate coverage of natural language processing in artificial intelligence encounters problems on developments of specialized computational approaches and algorithms. Many difficulties are due to ambiguities in natural language and dependency of interpretations on contexts and agents. Classical approaches proceed with relevant updates, and new developments emerge in theories of formal and natural languages, computational models of information and reasoning, and related computerized applications. Its focus is on computational processing of human language and

relevant medium languages, which can be theoretically formal, or for programming and specification of computational systems. The goal is to promote intelligent natural language processing, along with models of computation, language, reasoning, and other cognitive processes.

Understanding Global Higher Education Georgiana Mihut 2017-08-24 This volume brings together selected articles published in University World News (UWN) and International Higher Education (IHE) between 2011 and 2016. Researchers, policy makers, and practitioners alike further the development of higher education as a field of study through public and ongoing conversations. It is news, analysis, and commentary publications like UWN and IHE that facilitate this dialogue and keep pace with the most up-to-date developments in the field. Together, the articles included in this volume—alongside the section introductions—offer a rich and relevant picture of the dynamic state of higher education globally. While both publications are freely available online, this book provides a thematically coherent selection of articles, offering an accessible and analytic perspective on the pressing concerns of contemporary higher education.

Effortless English A. J. Hoge 2014-10-15 Effortless English: Learn To Speak English Like A Native A.J. HOGE, THE WORLD'S #1 ENGLISH TEACHER, teaches you his most powerful methods for learning to speak English fluently and confidently. Famous for training corporate and government leaders, A.J. Hoge gives you a step by step program teaching you the system that will help you master English and achieve ultimate success with English. You have studied English for years and yet you still do not speak well. When you speak English, you make grammar mistakes. Your pronunciation is not clear. Worst of all, you feel nervous and shy when you try to speak English. You read English well, but after all these years you still cannot speak well. The good news is, it's not your fault. You have simply used old ineffective methods. Effortless English will teach you a completely new way to learn English faster. Effortless English will.....

*Teach you how to overcome nervousness, shyness, and fear when speaking English. *Master spoken English grammar quickly and naturally *Teach you how to improve your English pronunciation and develop an American, British, or Australian accent. *Show you how to achieve a high TOEFL, IELTS, or TOEIC score. *Help you learn vocabulary 4-5 times faster. *Tell you how to feel stronger, calmer, and more powerful when speaking English. *Teach you how to understand native speakers and communicate clearly with them during real conversations. *Help you get better jobs by learning business English. *Teach you how to learn grammar without memorizing grammar rules. "You have studied English many years, yet you still do not speak well. You read English but you feel nervous and frustrated when speaking. It is time for a change. I will teach you to speak English quickly, easily, and automatically using my Effortless English System (TM). I will teach you to speak with correct grammar and excellent pronunciation. You can achieve success now simply by changing the way you learn English." --A.J. Hoge

Filozofia i logika Jan Hartman 2000

P-adic Analysis and Mathematical Physics Vasili? Sergeevich Vladimirov 1994 p-adic numbers play a very important role in modern number theory, algebraic geometry and representation theory. Lately p-adic numbers have attracted a great deal of attention in modern theoretical physics as a promising new approach for describing the non-Archimedean geometry of space-time at small distances.This is the first book to deal with applications of p-adic numbers in theoretical and mathematical physics. It gives an elementary and thoroughly written introduction to p-adic numbers and p-adic analysis with great numbers of examples as well as applications of p-adic numbers in classical mechanics, dynamical systems, quantum mechanics, statistical physics, quantum field theory and string theory.

Taming the Wild Field Willard Sunderland 2016-03-10 Stretching from the tributaries of the Danube to the Urals and from the Russian forests to the Black and Caspian seas, the vast European steppe has for centuries played very different roles in the Russian imagination. To the Grand Princes of Kiev and Muscovy, it was the "wild field," a region inhabited by nomadic Turko-Mongolic peoples who repeatedly threatened the fragile Slavic settlements to the north. For the emperors and empresses of imperial Russia, it was a land of boundless economic promise and a marker of national cultural prowess. By the mid-nineteenth century the steppe, once so alien and threatening, had emerged as an essential, if complicated, symbol of Russia itself. Traversing a thousand years of the region's history, Willard Sunderland recounts the complex process of Russian expansion and colonization, stressing the way outsider settlement at once created the steppe as a region of empire and was itself constantly changing. The story is populated by a colorful array of administrators, Cossack adventurers, Orthodox missionaries, geographers, foreign entrepreneurs, peasants, and (by the late nineteenth century) tourists and conservationists. Sunderland's approach to history is comparative throughout, and his comparisons of the steppe with the North American case are especially telling. Taming the Wild Field eloquently expresses concern with the fate of the world's great grasslands, and the book ends at the beginning of the twentieth century with the initiation of a conservation movement in Russia by those appalled at the high environmental cost of expansion.

The Glass Bead Game Hermann Hesse 2002-12-06 The Glass Bead Game, for which Hesse won the Nobel Prize for Literature in 1946, is the author's last and crowning achievement, the most imaginative and prophetic of all his novels. Setting the story in the distant postapocalyptic future, Hesse tells of an elite cult of intellectuals who play an elaborate game that uses all the cultural and scientific knowledge of the Ages. The Glass Bead Game is a fascinating tale of the complexity of modern life as well as a classic of modern literature. This edition features a Foreword by Theodore Ziolkowski that places the book in the full context of Hesse's thought.

My Moscow Igor Moukhin 2012 Igor Moukhin (born 1961) has been working as an independent photographer since 1989. Having started his career covering the lives of underground musicians in Soviet Russia, Moukhin's focus has changed into a more extensive study of the Soviet and post-Soviet space. His work has appeared in numerous Russian and international publications, and solo exhibitions were held in The Moscow House of Photography and the State Russian Museum in St. Petersburg. The photographer's work can be admired in, amongst others, the public collections of The Museum of Modern Art, New York, The Corcoran Gallery of Art, Washington D.C., The State Tretyakov Gallery, Moscow, Maison Européenne de la Photographie, Paris. He is based in Moscow and besides continuing his practice as a photographer, he lectures at Rodchenko School of Photography. Using his unique and familiar style, Moukhin reconstructs and explores the reality of post-Soviet society in his native Moscow. The images expose the public and private lives of various strata of citizens, different kinds of political, public or artistic groups and subcultures. This way, the book covers the great epoch of changes and course of life of numerous generations of Muscovites that lived through this twenty-five year period of change and hope. The book also contains an essay by the famous contemporary Russian writer Zakhar Prilepin.

From Data to Knowledge Wolfgang A. Gaul 2013-03-12 The subject of this book is the incorporation and integration of mathematical and statistical techniques and information science topics into the field of classification, data analysis, and knowledge organization. Readers will find survey papers as well as research papers and reports on newest results. The papers are a combination of theoretical issues and applications in special fields: Spatial Data Analysis, Economics, Medicine, Biology, and Linguistics.

Russia's Stillborn Democracy? Graeme J. Gill 2000-03-23 The decade and a half since Gorbachev came to power has been a tumultuous time for Russia. It has seen the expectations raised by perestroika dashed, the collapse of the Soviet superpower, and the emergence of a new Russian state claiming to base itself on democratic, market principles. It has seen a political system shattered by a president turning tanks against the parliament, and then that president configuring the new political structure to give himself overwhelming power. These upheavals took place against a backdrop of social dislocations as the Russian people were ravaged by the effects of economic shock therapy. This book explains how these momentous changes came about, and in particular why political elites were able to fashion the new political system largely independent of the wishes of the populace at large. It was this relationship between powerful elites and weak civil society forces which has led to Russian democracy under Yeltsin being still born.

Mathematical Foundations of Quantum Information and Computation and Its Applications to Nano- and Bio-systems Masanori Ohya 2011-01-15 This monograph provides a mathematical foundation to the theory of quantum information and computation, with applications to various open systems including nano and bio systems. It includes introductory material on algorithm, functional analysis, probability theory, information theory, quantum mechanics and quantum field theory. Apart from standard material on quantum information like quantum algorithm and teleportation, the authors discuss findings on the theory of entropy in C*-dynamical systems, space-time dependence of quantum entangled states, entangling operators, adaptive dynamics, relativistic quantum information, and a new paradigm for quantum computation beyond the usual quantum Turing machine. Also, some important applications of information theory to genetics and life sciences, as well as recent experimental and theoretical discoveries in quantum photosynthesis are described.

Abelard to Apple Richard A. Demillo 2011-08-26 How institutions of higher learning can rescue themselves from irrelevance and marginalization in the age of iTunes U and YouTube EDU. The vast majority of American college students attend two thousand or so private and public institutions that might be described as the Middle—reputable educational institutions, but not considered equal to the elite and entrenched upper echelon of the Ivy League and other prestigious schools. Richard DeMillo has a warning for these colleges and universities in the Middle: If you do not change, you are heading for irrelevance and marginalization. In *Abelard to Apple*, DeMillo argues that these institutions, clinging precariously to a centuries-old model of higher education, are ignoring the social, historical, and economic forces at work in today's world. In the age of iTunes, open source software, and for-profit online universities, there are new rules for higher education. DeMillo, who has spent years in both academia and in industry, explains how higher education arrived at its current parlous state and offers a road map for the twenty-first century. He describes the evolving model for higher education, from European universities based on a medieval model to American land-grant colleges to Apple's iTunes U and MIT's OpenCourseWare. He offers ten rules to help colleges reinvent themselves (including "Don't romanticize your weaknesses") and argues for a focus on teaching undergraduates. DeMillo's message—for colleges and universities, students, alumni, parents, employers, and politicians—is that any college or university can change course if it defines a compelling value proposition (one not based in "institutional envy" of Harvard and Berkeley) and imagines an institution that delivers it.

The Quantum Theory of Atoms in Molecules Chérif F. Matta 2007-04-09 This book distills the knowledge gained from research into atoms in molecules over the last 10 years into a unique, handy reference. Throughout, the authors address a wide audience, such that this volume may equally be used as a textbook without compromising its research-oriented character. Clearly structured, the text begins with advances in theory before moving on to theoretical studies of chemical bonding and reactivity. There follow separate sections on solid state and surfaces as well as experimental electron densities, before finishing with applications in biological sciences and drug-design. The result is a must-have for physicochemists, chemists, physicists, spectroscopists and materials scientists.

Higher Education and National Identity Johannes Remy 2000-01-01 This study focuses on the conflicting aims and deeds of the Russian government and the Polish nationally-minded student youth in the situation which emerged after the closure of the universities in Warsaw and Wilno (Vilnius) in 1832. Thousands of Polish students studied in Russian universities, constituting a considerable portion of the student body. They formed conspiracies, student unions and study circles. Their relations with Russian students entailed both enmity and co-operation. The book analyzes the idea of what it meant to be a Polish student in Russia between 1832 and 1863, and reveals secret disagreements between government politicians concerning the Polish question at the universities.

School-Age Care Environment Rating Scale Updated (SACERS) Thelma Harms 2013-12-06 What are the components of high-quality after-school care for children ages 5–12? How can we evaluate these programs? These are the challenges facing caregivers, schools, agencies, and parents as after-school programs proliferate. The School-Age Care Environment Rating Scale®, Updated Edition provides an easy-to-use resource for defining and assessing the

quality of both public and private programs caring for school-age children during out-of-school time. This updated, spiral-bound edition is re-formatted so that each Item appears on its own page, along with Notes for Clarification and Questions. The expanded Scoresheet can be copied from the book or downloaded from the TC Press website: www.tcpres.com. Selected revised Items make scoring more accurate and informative. The SACERS Updated Edition consists of 47 items, organized under 7 categories: Space and Furnishings Health and Safety Activities Interactions Program Structure Staff Development Special Needs Supplementary Items The SACERS Updated Edition is designed to be comprehensive in coverage and easy to use. Instructions for using the scale provide options for self-assessment in addition to formal assessments. Who should use the SACERS? Program directors Organizations, states, and agencies doing QRIS and continuous improvement evaluations School districts Program funders School principals Community-based out-of-school programs States receiving Race to the Top funds Teachers Teacher educators Researchers