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Computer-Based Mathematics Education and the Use of MatCos Software in Primary and Secondary Schools

The Athenaeum

Bookseller and the Stationery Trades' Journal

The Science of Generosity

Handbook of Research on Didactic Strategies and Technologies for Education: Incorporating Advancements

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## PIPER ALEXIS

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### **Computer-Based Mathematics Education and the Use of MatCos Software in Primary and Secondary Schools** Springer Nature

This book advances understanding of the manifestations, causes, and consequences of generosity. Synthesizing the findings of the 14 research projects conducted by the

Science of Generosity Initiative and offering an appendix of methods for studying generosity, this comprehensive account integrates insights from disparate disciplines to facilitate a broader understanding of giving—ultimately creating a compendium of not only the latest research in the field of altruistic behaviors, but also a research roadmap for the future. As the author sequentially explores the manifestations, causes, and consequences of generosity, Patricia Snell Herzog here also offers analyses ranging

from the micro- to macro-level to paint a full picture of the individual, interpersonal and familial, and collective (inter)actions involved in altruism and generosity. The author concludes with a call to stimulate further interdisciplinary generosity studies, describing the implications for emerging scholars and practitioners across sociology, economics, political science, religious studies, and beyond.

**The Athenaeum** Bloomsbury Publishing  
How the expansion of primary education in the West emerged not from democratic

ideals but from the state's desire to control its citizens. Nearly every country today has universal primary education. But why did governments in the West decide to provide education to all children in the first place? In *Raised to Obey*, Agustina Paglayan offers an unsettling answer. The introduction of broadly accessible primary education was not mainly a response to industrialization, or fueled by democratic ideals, or even aimed at eradicating illiteracy or improving skills. It was motivated instead by elites' fear of the masses—and the desire to turn the “savage,” “unruly,” and “morally flawed” children of the lower classes into well-behaved future citizens who would obey the state and its laws. Drawing on unparalleled evidence from two centuries of education provision in Europe and the Americas, and deploying rich data that capture the expansion of primary education and its characteristics, this sweeping book offers a political history of primary schools that is both broad and deep. Paglayan shows that governments invested in primary schools when internal threats heightened political elites' anxiety around mass violence and

the breakdown of social order. Two hundred years later, the original objective of disciplining children remains at the core of how most public schools around the world operate. The future of education systems—and their ability to reduce poverty and inequality—hinges on our ability to understand and come to terms with this troubling history.

*Bookseller and the Stationery Trades'*  
*Journal* Springer Nature

Where human communication and development is possible, folklore is developed. With the rise of digital communications and media in past decades, humans have adopted a new form of folklore within this online landscape. Digital folklore has been developed into a culture that impacts the ways in which communities are formed, media is created, and communications are carried out. It is essential to track this growing phenomenon. The *Digital Folklore of Cyberculture and Digital Humanities* focuses on the opportunities and chances for folklore research online as well as research challenges for online folk groups. It presents opportunities for production of digital internet material from items and

research in the field of folk culture and for digitization, documentation, and promotion of elements related to folk culture. Covering topics such as e-learning programs, online communities, and costumes and fashion archives, this premier reference source is a dynamic resource for folklorists, sociologists, anthropologists, psychologists, students and faculty of higher education, libraries, researchers, and academicians.

*The Science of Generosity* IGI Global  
Vols. for 1963- include as pt. 2 of the Jan. issue: Medical subject headings.

*Handbook of Research on Didactic Strategies and Technologies for Education: Incorporating Advancements* Duke University Press

This exciting, first-of-its-kind title describes the blossoming new science of medicine and management—the concepts, methodologies, techniques, and tools that create value for patients, populations, caregivers, staff, and healthcare organizations. Developed out of the innovative and powerful physician executive MBA program at the Heller School of Social Policy and Management at Brandeis University, *The New Science of*

Medicine & Management describes what physician leaders need to know and do to fix problems that can erode value in complex healthcare environments in which they practice medicine. The book is motivated by a singular proposition—Every Physician a Leader; Every Leader a Collaborative Team Player and a new definition of high-value health care. Composed of the best 18 of approximately 200 outstanding physician-led business school projects, the book is based on the collective efforts and experiences of 33 authors and coauthors, 28 of whom are physicians and 19 of whom have an MD and an MBA degree. The work is grounded in three important assertions: First, the clinical side of complex professional medical organizations such as hospitals has traditionally been led by highly skilled, highly experienced medical practitioners trained in the underlying biomedical disciplines and applied medical sciences. Second, there is research evidence that managers with clinical backgrounds can run better healthcare organizations, and a growing number of physician-led multispecialty groups are outperforming organizations run by lay managers. Third,

physicians and other caregivers should have some training in the new science of medicine and management; moreover, and very importantly, the transition from clinician to clinical manager and leader is challenging and requires training in the new science of medicine and management. State of the art, developed by expert physician leaders in the field, and replete with a wide range of management insights and lessons, this book asks important questions and offers an exciting and comprehensive resource for all physicians, health administrators, and clinicians interested in not only the science of medicine and management and in developing physician-led teams but, crucially, in ensuring value in healthcare by improving patient outcomes, safety, affordability, and employee well-being.

**Index Medicus** Springer Science & Business Media

This book constitutes the refereed proceedings of the First International Congress on Education and Technology in Sciences, CISETC 2019, held in Arequipa, Peru, in December 2019. The 12 full papers presented in the volume were carefully reviewed and selected from 96

submissions. The papers are focused on the two main topics: pedagogical practice in the sciences, focused specifically on science education; and complementary aspects of science teaching, which considers all the elements that can contribute to science education.

Republics of Knowledge Springer Nature

The theme of inserting new digital technologies into the teaching and learning of mathematics from primary and secondary schools has provoked a wide and interesting debate. One such debate is the reformation of the foundations of mathematics to include computation (what and how to calculate) among the traditional themes (Arithmetic, Geometry, etc.) of mathematics. Thus, the authors propose the MatCos Project as a new approach for solving this issue. Computer-Based Mathematics Education and the Use of MatCos Software in Primary and Secondary Schools is a critical reference source that proposes a new pedagogical-learning paradigm that guides students in the formation of an active, logical-sequential, intuitive, and creative thinking that directs them towards problem-solving and starts students with computational

thinking and programming in a natural way. The content of the book is divided into two parts, with the first exploring theoretical and pedagogical notes on mathematics and the second examining the MatCos programming environment and its systematic inclusion in teaching practice. Highlighting themes that include computer-assisted instruction, teaching-learning sequences, and programming, this book is ideal for in-service teachers, mathematics instructors, academicians, researchers, and students.

**Bulletin** BRILL

Vols. for 1911-13 contain the Proceedings of the Helminthological Society of Washington, ISSN 0018-0120, 1st-15th meeting.

The Spectator Princeton University Press

"This book is designed to be a platform for the most significant educational achievements by teachers, school administrators, and local associations that have worked together in public institutions that range from primary school to the university level"--Provided by publisher.

SDGs in the Americas and Caribbean Region Springer Science & Business Media  
"Republics of Knowledge tells the story of

how the circulation of knowledge shaped the formation of nation-states in Latin America, and particularly in Argentina, Peru and Chile, during the century after Iberian rule was defeated in the 1820s. Most immediately, the author has sought to provide a cross-disciplinary approach to the history of knowledge, combining the methods of global intellectual history with a new way of thinking about nations as experienced and enacted as well as how they are imagined, and in so doing offer a new interpretation of the history of independent Latin America to illustrate its wider significance in the making of the modern world. By bringing these lines of inquiry together within a transnational framework, Nicola Miller shows how evidence from the pioneering nations of Latin America can invite historians to rethink many of their general theories about how knowledge travels and how a sense of nationhood is created. The book is designed to stimulate debate about the significance of knowledge not only in Latin America but in all modern societies. As Miller explains, Latin America is usually regarded as an exception to general theories, notably of colonialism,

nationalism and liberalism; and yet it was in that part of the world, not in Europe, that the Age of Revolution brought the founding of a second wave of modern republics, and it was in Latin America that pioneering attempts were made to apply liberal principles in societies with inherited caste divisions and corporate institutions. It was there that some of the richest debates about the vexed relationship between collective identities and individualism took place"--

The Saturday Review of Politics, Literature, Science and Art Springer Nature

This volumes presents the first urban history of science, technology, and medicine in Lisbon, 1840-1940. It reveals how science, technology and medicine permeated even the most unlikely aspects of the urban landscape in an environment that was simultaneously a port city, scientific capital and imperial metropolis.

Athenaeum and London Literary Chronicle  
Ministerio de Educación

A new six-level course for children studying science in English. The course develops children's knowledge of science, history and geography as well as providing systematic development of English

language skills. Activities are varied in their approach to provide a motivating stimulus to children's learning.

### **Degrees of Mixture, Degrees of Freedom** IGI Global

This volume presents a "photograph" of the state of the art in Science Education Research in Europe as it has emerged from the first ESERA Conference held in Rome in September 1997. The Conference saw the participation of more than 280 researchers from European and some extra European countries distributed as follows U. K. 46 The Netherlands 10 Germany 35 Finland 9 Italy 28 Switzerland 6 Spain 26 Portugal 6 France 18 Israel 5 Sweden Argentina 15 3 Denmark 14 Australia 3 Greece 14 USA 3 Brasil 11 Others 18 Norway TOTAL 11 281 As it can be seen from the table, although the group from U. K. where research in science education has a well established tradition is the most consistent one, quite a large number of researchers has come from Germany and the Scandinavian countries, sign of the increasing attention these countries pay to scientific education at all levels. The presence of researchers from extraeuropean countries has allowed a

comparison of experience over a wider basis than the national one. The themes of research, identified a priori by the organizers as important, were: of the Art in Science Education Research (Biology, - The State Chemistry, Physics and Earth Science) - Science Teaching and Learning - Science, Science Teaching and Society - Teachers' Education and its Cultural Components The Scientific Committee of the Conference decided to publish a selection of the papers presented and we accepted the task of the editing.

### **Science** Frontiers Media SA

Game-based resources provide opportunities to consolidate and develop a greater knowledge and understanding of both mathematical concepts and numeracy skills, which present opportunities and challenges for both teachers and learners when engaging with subject content. For learners for whom the language of instruction is not their first or main language, this can present challenges and barriers to their progress. This requires teachers to reconsider and adapt their teaching strategies to ensure the needs of these learners are fully addressed, thereby promoting inclusion

and inclusive practices. The Handbook of Research on International Approaches and Practices for Gamifying Mathematics provides relevant theoretical frameworks and the latest empirical research findings in teaching and learning mathematics in bilingual/plurilingual education by using active methodologies, specifically gamification and game-based learning and teaching. Covering a wide range of topics such as e-safety, bilingual education, and multimodal mathematics, this major reference work is ideal for policymakers, researchers, academicians, practitioners, scholars, instructors, and students.

### **Raised to Obey** Princeton University Press

Race mixture, or mestizaje, has played a critical role in the history, culture, and politics of Latin America. In Degrees of Mixture, Degrees of Freedom, Peter Wade draws on a multidisciplinary research study in Mexico, Brazil, and Colombia. He shows how Latin American elites and outside observers have emphasized mixture's democratizing potential, depicting it as a useful resource for addressing problems of racism (claiming that race mixture undoes racial difference

and hierarchy), while Latin American scientists participate in this narrative with claims that genetic studies of mestizos can help isolate genetic contributors to diabetes and obesity and improve health for all. Wade argues that, in the process, genomics produces biologized versions of racialized difference within the nation and the region, but a comparative approach nuances the simple idea that highly racialized societies give rise to highly racialized genomics. Wade examines the tensions between mixture and purity, and between equality and hierarchy in liberal political orders, exploring how ideas and scientific data about genetic mixture are produced and circulate through complex networks.

Macmillan Natural and Social Science IGI Global

This volume attempts to provide a new articulation of issues surrounding scientific realism, scientific rationality, the epistemology of non-classical physics, the type of revolutionary changes in the development of science, the naturalization of epistemology within frameworks of cognitive science and structural linguistics, models of the information technology

revolution, and reconstructions of early modern logical systems.

**Cambridge University Gazette** IGI Global

This thought-provoking and original collection looks at how intellectuals and their disciplines have been shaped, halted and advanced by the rise and fall of empires. It illuminates how ideas did not just reflect but also moulded global order and disorder by informing public policies and discourse. Ranging from early modern European empires to debates about recent American hegemony, *Empire and the Social Sciences* shows that world history cannot be separated from the empires that made it, and reveals the many ways in which social scientists constructed empires as we know them. Taking a truly global approach from China and Japan to modern America, the contributors collectively tackle a long durée of the modern world from the Enlightenment to the present day. Linking together specific moments of world history it also puts global history at the centre of a debate about globalization of the social sciences. It thus crosses and integrates several disciplines and offers graduate students,

scholars and faculty an approach that intersects fields, crosses regions and maps a history of global social sciences.

**Perspectivas para las ciencias en la educación primaria**

Vols. for 1871-76, 1913-14 include an extra number, The Christmas bookseller, separately paged and not included in the consecutive numbering of the regular series.

**Saturday Review of Politics, Literature, Science and Art**

A history of science and magic spanning the period from early Christianity, through early modern Europe, to the end of the 17th century.

**Empire and the Social Sciences**

This volume provides an overview of the ways sustainable development issues as a whole, and the SDGs in particular, are perceived and practiced in a variety of countries in the Latin America and Caribbean region. It also discusses the extent to which its many socio-economic problems hinder progresses towards the pursuit of a sustainable future, and documents successful experiences from across the region. This book is part of the "100 papers to accelerate the

implementation of the UN Sustainable Development Goals initiative".