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Toward the Critique of Violence Walter Benjamin 2021-06-22 Marking the centenary of Walter Benjamin's immensely influential essay, "Toward the Critique of Violence," this critical edition presents readers with an altogether new, fully annotated translation of a work that is widely recognized as a classic of modern political theory. The volume includes twenty-one notes and fragments by Benjamin along with passages from all of the contemporaneous texts to which his essay refers. Readers thus encounter for the first time in English provocative arguments about law and violence advanced by Hermann Cohen, Kurt Hiller, Erich Unger, and Emil Lederer. A new translation of selections from Georges Sorel's *Reflections on Violence* further illuminates Benjamin's critical program. The volume also includes, for the first time in any language, a bibliography Benjamin drafted for the expansion of the essay and the development of a corresponding philosophy of law. An extensive introduction and afterword provide additional context. With its challenging argument concerning violence, law, and justice—which addresses such topical matters as police violence, the death penalty, and the ambiguous force of religion—Benjamin's work is as important today as it was upon its publication in Weimar Germany a century ago.

Abitur-Training - Physik 2 Aufbau der Materie, mit Videoanreicherung 2017-04-18

Culture in Communication Aldo Di Luzio 2001-01-01 An analysis of the extent to which culture plays a part in communication. This title explores topics such as context and culture in theoretical issues in intercultural communication, and incorporates a number of case studies from East and West German communication, collaboration and pleasure at work, and negotiation to address the relation of culture to communication.

Words in Context Louise Carleton-Gertsch 2013-02-18 Der Klassiker unter den Oberstufenwortschätzen - vollständig überarbeitet! Vokabular im Kontext lernen und die Ausdrucksfähigkeit nachhaltig verbessern. Aktueller Wortschatz zu allen Themen der Oberstufe. Lebendige landeskundliche Informationen. Systematische Wortschatzerweiterung mit Kollokationen, Wortfamilien, Synonymen und Antonymen sowie "falschen Freunden". Online-Extra: Audio-Dateien zu allen Texten als Stream und MP3-Download (Zugangscodes im Buch).

The Meaning of Particle/prefix Constructions in German Robert B. Dewell 2011 This is really two books in one: a valuable reference resource, and a groundbreaking case study that represents a new approach to constructional semantics. It presents a detailed descriptive survey, using extensive examples collected from the Internet, of German verb constructions in which the expressions durch

('through'), über ('over'), unter ('under'), and um ('around') occur either as inseparable verb prefixes or as separable verb particles. Based on that evidence, the author argues that the prefixed verb constructions and particle verb constructions themselves have meaning, and that this meaning involves subjective construal processes rather than objective information. The constructions prompt us to distribute focal attention according to patterns that can be articulated in terms of Talmy's notion of *perspectival modes*. Among the other topics that play an important role in the analysis are incremental themes, reflexive trajectors, fictive motion, *multi-directional paths*, and *accusative landmarks*.

The Politics of Teacher Autonomy in Estonia, Germany, and Finland Maria Erss 2015

The Creation of Scientific Effects Jed Z. Buchwald 1994-09-15 This book is an attempt to reconstitute the tacit knowledge—the shared, unwritten assumptions, values, and understandings—that shapes the work of science. Jed Z. Buchwald uses as his focus the social and intellectual world of nineteenth-century German physics. Drawing on the lab notes, published papers, and unpublished manuscripts of Heinrich Hertz, Buchwald recreates Hertz's 1887 invention of a device that produced electromagnetic waves in wires. The invention itself was serendipitous and the device was quickly transformed, but Hertz's early experiments led to major innovations in electrodynamics. Buchwald explores the difficulty Hertz had in reconciling the theories of other physicists, including Hermann von Helmholtz and James Clerk Maxwell, and he considers the complex and often problematic connections between theory and experiment. In this first detailed scientific biography of Hertz and his scientific community, Buchwald demonstrates that tacit knowledge can be recovered so that we can begin to identify the unspoken rules that govern scientific practice.

Einstein and Heisenberg Konrad Kleinknecht 2019-02-13 This is a fascinating account of two great scientists of the 20th century: Einstein and Heisenberg, discoverers, respectively, of the theory of relativity and quantum mechanics. It connects the history of modern physics to the life stories of these two extraordinary physicists. These discoveries laid the foundation of modern physics, without which our digitized world of computers, satellites, and innovative materials would not be possible. This book also describes in comprehensible terms the complicated science underlying the two discoveries. The twin biography highlights the parallels and differences of these two luminaries, showing how their work shaped the 20th century into the century of physics.

Logic, Epistemology, and the Unity of Science Shahid Rahman 2009-03-16 The first volume in this new series explores, through extensive co-operation, new ways of achieving the integration of science in all its diversity. The book offers essays from important and influential philosophers in contemporary philosophy, discussing a range of topics from philosophy of science to epistemology, philosophy of logic and game theoretical approaches. It will be of interest to philosophers, computer scientists and all others interested in the scientific rationality.

Objective Advanced Student's Book with Answers with CD-ROM Felicity O'Dell 2014-05-15 Fourth edition of the best-selling Cambridge English: Advanced (CAE) course, updated to prepare for the 2015 revised exam.

Paul Lorenzen -- Mathematician and Logician Gerhard Heinzmann 2021-08-17 This open access book examines the many contributions of Paul Lorenzen, an outstanding philosopher from the latter half of the 20th century. It features papers focused on integrating Lorenzen's original approach into the history of logic and mathematics. The papers also explore how practitioners can implement Lorenzen's systematic ideas in today's debates on proof-theoretic semantics, databank management, and

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stochastics. Coverage details key contributions of Lorenzen to constructive mathematics, Lorenzen's work on lattice-groups and divisibility theory, and modern set theory and Lorenzen's critique of actual infinity. The contributors also look at the main problem of Grundlagenforschung and Lorenzen's consistency proof and Hilbert's larger program. In addition, the papers offer a constructive examination of a Russell-style Ramified Type Theory and a way out of the circularity puzzle within the operative justification of logic and mathematics. Paul Lorenzen's name is associated with the Erlangen School of Methodical Constructivism, of which the approach in linguistic philosophy and philosophy of science determined philosophical discussions especially in Germany in the 1960s and 1970s. This volume features 10 papers from a meeting that took place at the University of Konstanz.

Pioneering Women in American Mathematics Judy Green 2009-01 More than 14 percent of the PhD's awarded in the United States during the first four decades of the twentieth century went to women, a proportion not achieved again until the 1980s. This book is the result of a study in which the authors identified all of the American women who earned PhD's in mathematics before 1940, and collected extensive biographical and bibliographical information about each of them. By reconstructing as complete a picture as possible of this group of women, Green and LaDuke reveal insights into the larger scientific and cultural communities in which they lived and worked. The book contains an extended introductory essay, as well as biographical entries for each of the 228 women in the study. The authors examine family backgrounds, education, careers, and other professional activities. They show that there were many more women earning PhD's in mathematics before 1940 than is commonly thought. Extended biographies and bibliographical information are available from the companion website for the book: www.ams.org/bookpages/hmath-34. The material will be of interest to researchers, teachers, and students in mathematics, history of mathematics, history of science, women's studies, and sociology. The data presented about each of the 228 individual members of the group will support additional study and analysis by scholars in a large number of disciplines.

[The Multinational History of Strasbourg Astronomical Observatory](#) Andre HECK 2006-04-04 Strasbourg Astronomical Observatory is quite an interesting place for historians: several changes of nationality between France and Germany, high-profile scientists having been based there, big projects born or installed within its walls, and so on. Most of the documents circulating on the history of the Observatory and on related matters have however been so far poorly referenced, if at all. This made necessary the compilation of a volume such as this one, offering fully-documented historical facts and references on the first decades of the Observatory history, authored by both French and German specialists. The experts contributing to this book have done their best to write in a way understandable to readers not necessarily hyperspecialized in astronomy nor in the details of European history. Several appendices conclude the book: lists of council members and of Observatory scientific personnel, as well as a compendium of the institutional publications until the year 2000.

German books in print 1997

Becoming Heidegger Martin Heidegger 2007-06-07 In the decades since Martin Heidegger's death, many of his early writings--notes and talks, essays and reviews--have made it into print, but in such scattershot fashion and erratic translation as to mitigate their usefulness for understanding the development, direction, and ultimate shape of his work. This timely collection, edited by two preeminent Heidegger scholars, brings together in English translation the most philosophical of Heidegger's earliest occasional writings from 1910 to the end of 1927. These important philosophical documents fill out the context in which the early Heidegger wrote his major works and provide the background against which they appeared. Accompanied by incisive commentary, these pieces from Heidegger's student days, his

early Freiburg period, and the time of his Marburg lecture courses will contribute substantially to rethinking the making and meaning of Being and Time. The contents are of a depth and quality that make this volume the collection for those interested in Heidegger's work prior to his masterwork. The book will also serve those concerned with Heidegger's relation to such figures as Aristotle, Dilthey, Husserl, Jaspers, and Löwith, as well as scholars whose interests are more topically centered on questions of history, logic, religion, and truth. Important in their own right, these pieces will also prove particularly useful to students of Heidegger's thought and of twentieth-century philosophy in general.

The Wall Jumper Peter Schneider 1998-11 In the Wall Jumper, real people cross the Wall not to defect but to quarrel with their lovers, see Hollywood movies, and sometimes just because they can't help themselves—the Wall has divided their emotions as much as it has their country.

Bernhard Riemann 1826-1866 Detlef Laugwitz 2009-06-08 The name of Bernard Riemann is well known to mathematicians and physicists around the world. His name is indelibly stamped on the literature of mathematics and physics. This remarkable work, rich in insight and scholarship, is addressed to mathematicians, physicists, and philosophers interested in mathematics. It seeks to draw those readers closer to the underlying ideas of Riemann's work and to the development of them in their historical context. This illuminating English-language version of the original German edition will be an important contribution to the literature of the history of mathematics.

Hitler Redux Mikael Nilsson 2020-09-16 After Hitler's death, several posthumous books were published which purported to be the verbatim words of the Nazi leader – two of the most important of these documents were Hitler's Table Talk and The Testament of Adolf Hitler. This ground-breaking book provides the first in-depth analysis and critical study of Hitler's so-called table talks and their history, provenance, translation, reception, and usage. Based on research in public and private archives in four countries, the book shows when, why, where, how, by and for whom the table talks were written, how reliable the texts are, and how historians should approach and use them. It reveals the crucial role of the mysterious Swiss Nazi Francois Genoud, as well as some very poor judgement from several famous historians in giving these dubious sources more credibility than they deserved. The book sets the record straight regarding the nature of these volumes as historical sources – proving inter alia The Testament to be a clever forgery – and aims to establish a new consensus on their meaning and impact on historical research into Hitler and the Third Reich. This path-breaking historical investigation will be of considerable interest to all researchers and historians of the Nazi era.

Universities in Imperial Austria, 1848-1918 Jan Surman 2019 Combining history of science and a history of universities with the new imperial history, *Universities in Imperial Austria 1848-1918: A Social History of a Multilingual Space* by Jan Surman analyzes the practice of scholarly migration and its lasting influence on the intellectual output in the Austrian part of the Habsburg Empire. The Habsburg Empire and its successor states were home to developments that shaped Central Europe's scholarship well into the twentieth century. Universities became centers of both state- and nation-building, as well as of confessional resistance, placing scholars if not in conflict, then certainly at odds with the neutral international orientation of academe. By going beyond national narratives, Surman reveals the Empire as a state with institutions divided by language but united by legislation, practices, and other influences. Such an approach allows readers a better view to how scholars turned gradually away from state-centric discourse to form distinct language communities after 1867; these influences affected scholarship, and by examining the scholarly record, Surman tracks the turn. Drawing on archives in Austria, the Czech Republic, Poland, and Ukraine, Surman analyzes the careers of several thousand scholars from the faculties of philosophy and medicine of a number of Habsburg universities, thus covering various

moments in the history of the Empire for the widest view. Universities in Imperial Austria 1848-1918 focuses on the tension between the political and linguistic spaces scholars occupied and shows that this tension did not lead to a gradual dissolution of the monarchy's academia, but rather to an ongoing development of new strategies to cope with the cultural and linguistic multitude.

Molecular Beams in Physics and Chemistry Bretislav Friedrich 2022-04-17 An homage to Otto Stern (Dudley Herschbach).- My uncle Otto Stern (Alan Templeton).- Otto Stern's trajectory (Tilman Sauer).- From theory to experiment (and back to theory)? On Otto Stern, Max Born and other physicists in the 1920s (Arne Schirrmacher).- Otto Sackur, Otto Stern, and the Beginning of the Quantum Theory of Gases (Massimiliano Badino).- From Stern's beam experiments to modern biomolecular NMR spectroscopy (Christian Griesinger).- Quantum or classical perception: The Imaging Theorem and the Ensemble Picture (John Briggs).- Reduction of the atomic wave function in the Stern--Gerlach magnetic field (Michael Devereux).- Precision experiments for the revised SI -- and the future of time (Joachim Ullrich).- Precision Physics in Penning Traps Using the Continuous Stern--Gerlach--Effect (Klaus Blaum).- Frankfurt Physicists (Michael Eckert).- Our Patrimony from Otto Stern and My Memories of Otto Frisch (Dan Kleppner).- Ultracold Chemical reactions with molecules in slow motion (Kang-Kuen Ni).- Choreographing Quantum Spin Dynamics with Light (Monika Schleier-Smith).- Stern's relation to Gerlach (Horst Schmidt--Böcking).- Manipulation and control of molecular beams (Gerard Meijer).- Quantum effects in cold and controlled molecular dynamics (Christiane Koch).- Otto Stern and Wave--Particle Duality (Peter Toennies).- Macromolecular Matter Wave Interferometry and Talbot--Lau Deflectometry (Markus Arndt).- Rotating rotationless: nonadiabatic alignment of the helium dimer and trimer (Maksim Kunitski).- Grating Diffraction of Molecular Beams: Present Day Implementations of Otto Stern's Concept (Wieland Schöllkopf).- Interaction effects in ultra cold atom systems (Dörte Blume).- Laser cooling and magneto--optical trapping of molecules (Mike Tarbutt).- Microdroplet Chemistry (Dick Zare).- TBA (Manfred Faubel).- From Liquid Rays to Gas Rays: The Non--Maxwellian Evaporation of Helium from Water Microjets (Gil Nathanson).- Laser--induced rotation and alignment of molecules in helium nanodroplets (Henrik Stapelfeldt).- Far-from-equilibrium dynamics of molecules in helium nanodroplets (Mikhail Lemeshko).

Themenwortschatz Rainer Jacob 2003

Praxis der Mathematik in der Schule 2003

Felix Klein Renate Tobies 2021-06-23 About Felix Klein, the famous Greek mathematician Constantin Carathéodory once said: "It is only by illuminating him from all angles that one can come to understand his significance." The author of this biography has done just this. A detailed study of original sources has made it possible to uncover new connections; to create a more precise representation of this important mathematician, scientific organizer, and educational reformer; and to identify misconceptions. Because of his edition of Julius Plücker's work on line geometry and due to his own contributions to non-Euclidean geometry, Klein was already well known abroad before he received his first full professorship at the age of 23. By exchanging ideas with his most important cooperation partner, the Norwegian Sophus Lie, Klein formulated his Erlangen Program. Various other visionary programs followed, in which Klein involved mathematicians from Germany and abroad. Klein was the most active promoter of Riemann's geometric-physical approach to function theory, but he also integrated the analytical approaches of the Weierstrass school into his arsenal of methods. Klein was a citizen of the world who repeatedly travelled to France, Great Britain, Italy, the United States, and elsewhere. Despite what has often been claimed, it must be emphasized that Klein expressly opposed national chauvinism. He promoted mathematically gifted individuals regardless of their nationality, religion, or gender. Many of his works have been translated into English, French, Italian, Russian, and other languages; more than 300 supporters from around the

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world made it possible for his portrait to be painted by the prominent impressionist Max Liebermann. Inspired by international developments, Klein paved the way for women to work in the field of mathematics. He was instrumental in reforming mathematical education, and he endorsed an understanding of mathematics that affirmed its cultural importance as well as its fundamental significance to scientific and technological progress.

Subject guide to German books in print 1979

Unravelling the Mystery of the Atomic Nucleus Bernard Fernandez 2012-09-28 Unravelling the Mystery of the Atomic Nucleus is a history of atomic and nuclear physics. It begins in 1896 with the discovery of radioactivity, which leads to the discovery of the nucleus at the center of the atom. It follows the experimental discoveries and the theoretical developments up to the end of the Fifties. Unlike previous books regarding on history of nuclear physics, this book methodically describes how advances in technology enabled physicists to probe the physical properties of nuclei as well as how the physical laws which govern these microscopic systems were progressively discovered. The reader will gain a clear understanding of how theory is inextricably intertwined with the progress of technology. Unravelling the Mystery of the Atomic Nucleus will be of interest to physicists and to historians of physics, as well as those interested development of science.

High-Tc Copper Oxide Superconductors and Related Novel Materials Annette Bussmann-Holder 2017-03-24 Authored by many of the world's leading experts on high-Tc superconductivity, this volume presents a panorama of ongoing research in the field, as well as insights into related multifunctional materials. The contributions cover many different and complementary aspects of the physics and materials challenges, with an emphasis on superconducting materials that have emerged since the discovery of the cuprate superconductors, for example pnictides, MgB₂, H₂S and other hydrides. Special attention is also paid to interface superconductivity. In addition to superconductors, the volume also addresses materials related to polar and multifunctional ground states, another class of materials that owes its discovery to Prof. Müller's ground-breaking research on SrTiO₃.

Progress in Geography: Key Stage 3 David Gardner 2018-10-22 Motivate pupils to develop their geographical skills, knowledge and understanding as they become engaged and accomplished geographers, ready for the demands of GCSE. Specifically designed to provide a solid foundation for the 2016 GCSE specifications, this Student Book takes an enquiry-based approach to learning within each unit and lesson. - Easily and cost-effectively implement a new KS3 scheme of work: this coherent single-book course covers the latest National Curriculum content, providing 150 ready-made lessons that can be used flexibly for a two or three-year KS3 - Build and improve the geographical knowledge and skills that pupils need: every double-page spread represents a lesson, with rich geographical data and place contexts for pupils to interpret, analyse and evaluate - Lay firm foundations for GCSE: key vocabulary, command words and concepts are introduced gradually, preparing pupils for the content and question types they will encounter at GCSE, with a particular focus on analysis and evaluation questions - Effectively assess, measure and demonstrate progress: formative assessments throughout each lesson and summative end-of-unit reviews include questions that show whether pupils are 'working towards', 'meeting' or 'exceeding' expectations - Encourage pupils to check and drive their own progress: learning objectives and end-of-unit learning outcomes help pupils reflect on their learning and make connections between key concepts and skills throughout the course

Soul Economy Rudolf Steiner 2003-08-01 The important lectures in this volume were given by Rudolf Steiner in Dornach, Switzerland, to leading educators, including many from England. As a result, he was

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invited to Oxford, England, to expand on some of the themes presented in these lectures. Steiner begins by placing Anthroposophy as the foundation for understanding the principles behind Waldorf education. In the talks that follow, he describes an education based on the human being as a continually developing being of body, soul, and spirit. Out of this perspective, Waldorf education depends on the teacher's ability to observe and respond to each stage of a child's development. Steiner shows how Waldorf education emphasizes the efficient use of children's inner energies, and how children can be nurtured through their natural stages of development by giving them just what they need at the right time - an approach that he refers to in these talks as "soul economy." The topics on education include: health and illness, children from before the seventh year through adolescence, physical education, esthetic education, and religious and moral education. These detailed and accessible lectures give parents and teachers the keys to a much-needed renewal of education for our children and their future.

Analytic Number Theory Gauss-Dirichlet Conference (2005 : Göttingen) 2007 Articles in this volume are based on talks given at the Gauss-Dirichlet Conference held in Göttingen on June 20-24, 2005. The conference commemorated the 150th anniversary of the death of C.-F. Gauss and the 200th anniversary of the birth of J.-L. Dirichlet. The volume begins with a definitive summary of the life and work of Dirichlet and continues with thirteen papers by leading experts on research topics of current interest in number theory that were directly influenced by Gauss and Dirichlet. Among the topics are the distribution of primes (long arithmetic progressions of primes and small gaps between primes), class groups of binary quadratic forms, various aspects of the theory of L -functions, the theory of modular forms, and the study of rational and integral solutions to polynomial equations in several variables.

Mathematics in Berlin Heinrich Begehr 2012-12-06 This little book is conceived as a service to mathematicians attending the 1998 International Congress of Mathematicians in Berlin. It presents a comprehensive, condensed overview of mathematical activity in Berlin, from Leibniz almost to the present day (without, however, including biographies of living mathematicians). Since many towering figures in mathematical history worked in Berlin, most of the chapters of this book are concise biographies. These are held together by a few survey articles presenting the overall development of entire periods of scientific life at Berlin. Overlaps between various chapters and differences in style between the chapters were inevitable, but sometimes this provided opportunities to show different aspects of a single historical event - for instance, the Kronecker-Weierstrass controversy. The book aims at readability rather than scholarly completeness. There are no footnotes, only references to the individual bibliographies of each chapter. Still, we do hope that the texts brought together here, and written by the various authors for this volume, constitute a solid introduction to the history of Berlin mathematics.

Recollections of a Jewish Mathematician in Germany Abraham A. Fraenkel 2016-10-21 Abraham A. Fraenkel was a world-renowned mathematician in pre-Second World War Germany, whose work on set theory was fundamental to the development of modern mathematics. A friend of Albert Einstein, he knew many of the era's acclaimed mathematicians personally. He moved to Israel (then Palestine under the British Mandate) in the early 1930s. In his autobiography Fraenkel describes his early years growing up as an Orthodox Jew in Germany and his development as a mathematician at the beginning of the twentieth century. This memoir, originally written in German in the 1960s, has now been translated into English, with an additional chapter covering the period from 1933 until his death in 1965 written by the editor, Jiska Cohen-Mansfield. Fraenkel describes the world of mathematics in Germany in the first half of the twentieth century, its origins and development, the systems influencing it, and its demise. He also paints a unique picture of the complex struggles within the world of Orthodox Jewry in Germany. In his personal life, Fraenkel merged these two worlds during periods of turmoil including the two world wars

and the establishment of the state of Israel. Including a new foreword by Menachem Magidor Foreword to the 1967 German edition by Yehoshua Bar-Hillel

Theory of Culture American Sociological Association 1992-01-01 With the increasing focus on the concept of culture by sociologists and other social scientists, there is now a need for clarifying and developing theoretical perspectives on this issue. The contributors to this volume have answered this call, each adding new insight to the debate over culture, its definition, and its relationship with other basic categories in sociological theory. Along the way they touch on other fundamental issues, such as the interrelationship of culture with society, the human personality, and the wider environment of the human condition.

Hand Lettering Katja Haas 2019-09-15 Katja Haas introduces the art of beautiful writing, presenting the different types of lettering, materials, all the basics principles and practical tips and tricks for your own designs. Templates for special occasions, practical exercises, and ideas for decorative designs and slogans turn this instruction book into a creative treasure trove. Hand lettering gives you a little time for relaxation with pen and paper. So grab your pens and start lettering!

Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen 2000

Vom Energieinhalt ruhender Körper Grit Kalies 2019-09-02 Im Buch werden zwei fundamentale physikalische Theorien miteinander verglichen: die Thermodynamik und die Spezielle Relativitätstheorie. Es wird gezeigt, dass mit der thermodynamischen Methode eine Materie-Energie-Äquivalenz vereinbar ist, während die Spezielle Relativitätstheorie eine Masse-Energie-Äquivalenz postuliert. Die weitreichenden Konsequenzen der Materie-Energie-Äquivalenz werden dargestellt.

Reflections Walter Benjamin 2019-02-26 "This book is just that: reflections of a highly polished mind that uncannily approximate the century's fragments of shattered traditions." — Time A companion volume to *Illuminations*, the first collection of Walter Benjamin's writings, *Reflections* presents a further sampling of his wide-ranging work. Here Benjamin evolves a theory of language as the medium of all creation, discusses theater and surrealism, reminisces about Berlin in the 1920s, recalls conversations with Bertolt Brecht, and provides travelogues of various cities, including Moscow under Stalin. Benjamin moves seamlessly from literary criticism to autobiography to philosophical-theological speculations, cementing his reputation as one of the greatest and most versatile writers of the twentieth century.

PISA The PISA 2003 Assessment Framework Mathematics, Reading, Science and Problem Solving Knowledge and Skills OECD 2004-03-02 The PISA 2003 Assessment Framework presents the conceptual underpinning of the PISA 2003 assessments. Within each assessment area, the volume defines the content that students need to acquire, the processes that need to be performed and the contexts in which knowledge and skills are applied.

The Mie Theory Wolfram Hergert 2012-06-30 This book presents in a concise way the Mie theory and its current applications. It begins with an overview of current theories, computational methods, experimental techniques, and applications of optics of small particles. There is also some biographic information on Gustav Mie, who published his famous paper on the colour of Gold colloids in 1908. The Mie solution for the light scattering of small spherical particles set the basis for more advanced scattering theories and today there are many methods to calculate light scattering and absorption for practically any shape and composition of particles. The optics of small particles is of interest in industrial,

atmospheric, astronomic and other research. The book covers the latest developments in divers fields in scattering theory such as plasmon resonance, multiple scattering and optical force.

Transatlantic Encounters in History of Education Fanny Isensee 2020-07-26 In the last twenty years, transnational perspectives have gained momentum in the field of historical-educational research. Scholars have made substantial efforts to rethink nation-based historiographies by reconstructing and reinterpreting the cross-border encounters and intertwined processes that have turned the history of education into a transnational enterprise. A closer look at specific transnational spaces furthers a better understanding of these processes. Against this backdrop, the book offers case studies focusing on transatlantic encounters with special regard to the manifold entanglements between Germany and the United States of America that represent one of the most complex, dynamic, and vivid educational spaces between the eighteenth and twentieth century. Drawing on excellent source material, each contribution examines interaction processes as the genuine transformative moment within any cross-border transfer, and investigates exchanges of concepts, institutions, and materials. Under this premise, the book draws attention to shifting trajectories in the German-American history of education that can be identified by focusing on long-lasting transnational entanglements. By offering a wide range of research approaches, the publication furthermore contributes innovative methodological thoughts to transnational histories of education that go beyond the German-American context and will interest students, emerging researchers, and experts of history of education.

The Reckless Afterlife of Harriet Stoker Lauren James 2020 A sharp thriller with a twist of the supernatural from a masterful sci-fi writer. "Lauren James is a genius." SFX Magazine "Lauren James isn't just headed for the stars - she's already there." Samantha Shannon, author of *The Priory of the Orange Tree* What if death is only the beginning? When Harriet Stoker dies after falling from a balcony in a long-abandoned building, she discovers a world of ghosts with magical powers - shape-shifting, hypnosis, even the ability to possess the living. Felix, Kasper, Rima and Leah welcome her into their world, eager to make friends with the new arrival. Yet Harriet is more interested in unleashing her own power, even if it means destroying everyone around her. But when all of eternity is at stake, the afterlife can be a dangerous place to make an enemy.