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500 Activities for the Primary Classroom Carol Read 2007

Hidden Geographies Marko Krevs 2021-10-21 This book defines and discusses the term “hidden geographies” in two ways: systematically and by presenting a variety of examples of the research fields and topics concerning hidden geographies, with the aim of stimulating further basic and applied research in this area. While the term is quite rarely used in the scientific literature (more often as a figure of speech than to illustrate or problematize its deeper meaning), we argue that hidden geographies are everywhere and many of them have significant impacts on (other) natural and social phenomena and processes, subsequently triggering changes, for example in landscape, economy, culture, health or quality of life. The introductory section of the book conceptualises hidden geographies and discusses cognitive geography, symbolization of space, and the hidden geographies in mystical literature. Case studies of hidden environmental geographies address soils, air pollution, coastal pollution and the allocation of an astronomical tourism site. Revealing hidden historical and sacred places is illustrated through examples of the visualisation of the subterranean mining landscape, the analysis of the historical road network and trade, border stones and historical spatial boundaries, and the monastic Carthusian space. Hidden urban geographies are discussed in terms of the urban development of an entire city, presenting the role of geography in rescuing architecture, revealing illegal urbanisation, and the quality of habitation in Roma neighbourhoods. Case studies of hidden population geographies shed light on the ageing of rural populations and the impact of spatial-demographic disparities on fertility variations. Discussions of hidden social and economic geographies problematize recent social changes and conflicts in a country, present the implementation of the fourth industrial revolution and borders as hidden obstacles in the organisation of public transport. Hidden geographies are explicitly linked to perceptions and explanations in case studies that

address local responses to perceived marginalisation in a city, the solo women travellers' perceived risk and safety, and hidden geographical contexts of visible post-war landscapes. The book brings such a diversity of views, ideas and examples related to hidden geographies that can serve both to deepen their understanding and their various impacts on our lives and environment, and to attract further cross-disciplinary interest in considering hidden geographies – in research and in our every-day lives.

History of Humanity: From the third millennium to the seventh century B.C.

Sigfried J. de Laet 1994-01-01 The second volume covers the first two and a half thousand years of recorded history, from the start of the Bronze Age 5,000 years ago to the beginnings of the Iron Age. Written by a team of over sixty specialists, this volume includes a comprehensive bibliography and a detailed index.

Philosophy and Computing Luciano Floridi 2002-01-04 *Philosophy and Computing* explores each of the following areas of technology: the digital revolution; the computer; the Internet and the Web; CD-ROMs and Multimedia; databases, textbases, and hypertexts; Artificial Intelligence; the future of computing. Luciano Floridi shows us how the relationship between philosophy and computing provokes a wide range of philosophical questions: is there a philosophy of information? What can be achieved by a classic computer? How can we define complexity? What are the limits of quantum computers? Is the Internet an intellectual space or a polluted environment? What is the paradox in the Strong Artificial Intelligence program? *Philosophy and Computing* is essential reading for anyone wishing to fully understand both the development and history of information and communication technology as well as the philosophical issues it ultimately raises.

German for Everyone Junior 5 Words a Day DK 2021-07-06 PLEASE NOTE - this is a replica of the print book and you will need a pen and paper to complete the exercises. Your first 1,000 German words - five words a day. Over the course of a year, *German for Everyone Junior: Five Words a Day* teaches new vocabulary to children who are starting to learn German. Presenting 20 new words between Monday and Thursday, the final day of each week's teaching allows children to practice the vocabulary they have just learned. A mix of nouns and verbs are taught through beautifully illustrated scenes, with each new word clearly labeled. *Five Words a Day* first encourages children to copy out the words before covering them with the flaps on the jacket and testing their new knowledge. Accompanying audio means that children are also able to practice their German pronunciation as many times as they want. With over 1,000 German words, *Five Words a Day* is a colorful, clear, and comprehensive workbook that will lay the foundations for your child's journey in learning and understanding German, at school or at home.

A Primer in Density Functional Theory Carlos Fiolhais 2003-06-11 Density functional theory (DFT) is by now a well-established method for tackling the quantum mechanics of many-body systems. Originally applied to compute

properties of atoms and simple molecules, DFT has quickly become a work horse for more complex applications in the chemical and materials sciences. The present set of lectures, spanning the whole range from basic principles to relativistic and time-dependent extensions of the theory, is the ideal introduction for graduate students or nonspecialist researchers wishing to familiarize themselves with both the basic and most advanced techniques in this field.

Building with Earth Gernot Minke 2012-10-02 For a number of years, the healthy and environment-friendly building material earth, in common use for thousands of years, has been enjoying increasing popularity, including in industrialized nations. In hot dry and temperate climate zones, earth offers numerous advantages over other materials. Its particular texture and composition also holds great aesthetic appeal. The author's presentation reflects the rich and varied experiences gained over thirty years of building earth structures all over the world. Numerous photographs of construction sites and drawings show the concrete execution of earth architecture.

Fit fürs Goethe-Zertifikat C1 Evelyn Frey 2007

Deutsch Ohne Mühe Heute Hilde Schneider 1994-06-01 Learn modern German in 100 lively and entertaining lessons. In just five months, you will be able to hold a conversation with German speakers. The audio recordings, made by professional voice-over artists, are invaluable for picking up the rhythms of the spoken language. Workbook and CD Package

Communicative proficiency and linguistic development Inge Bartning 2010 The Common European Framework of Reference for Languages (CEFR) has become the yardstick for teaching and testing language skills in Europe and elsewhere. Yet little is known about the relationships between the communicative levels established using the can-do statements of the CEFR and the developmental stages of grammatical and lexical development described by Second Language Acquisition (SLA) research. This book presents empirical research by members of the SLATE network (Second Language Acquisition and Testing in Europe), aimed at bridging this gap. The studies deal with several target languages, including Dutch, English, Finnish, French, Italian, Norwegian and Spanish, with adult, adolescent and child learners in both formal and informal contexts.

Crystal Engineering Jeffrey H Williams 2017-09-28 There are more than 20 million chemicals in the literature, with new materials being synthesized each week. Most of these molecules are stable, and the 3-dimensional arrangement of the atoms in the molecules, in the various solids may be determined by routine x-ray crystallography. When this is done, it is found that this vast range of molecules, with varying sizes and shapes can be accommodated by only a handful of solid structures. This limited number of architectures for the packing of molecules of all shapes and sizes, to maximize attractive intermolecular forces and minimizing repulsive intermolecular forces, allows us to develop simple models of what holds the molecules together in the solid. In this volume we

look at the origin of the molecular architecture of crystals; a topic that is becoming increasingly important and is often termed, crystal engineering. Such studies are a means of predicting crystal structures, and of designing crystals with particular properties by manipulating the structure and interaction of large molecules. That is, creating new crystal architectures with desired physical characteristics in which the molecules pack together in particular architectures; a subject of particular interest to the pharmaceutical industry.

Common European Framework of Reference for Languages: Learning, Teaching, assessment Council of Europe 2020-05-05 The CEFR Companion volume broadens the scope of language education. It reflects academic and societal developments since the publication of the Common European Framework of Reference for Languages (CEFR) and updates the 2001 version. It owes much to the contributions of members of the language teaching profession across Europe and beyond. This volume contains: ► an explanation of the key aspects of the CEFR for teaching and learning; ► a complete set of updated CEFR descriptors that replaces the 2001 set with: - modality-inclusive and gender-neutral descriptors; - added detail on listening and reading; - a new Pre-A1 level, plus enriched description at A1 and C levels; - a replacement scale for phonological competence; - new scales for mediation, online interaction and plurilingual/pluricultural competence; - new scales for sign language competence; ► a short report on the four-year development, validation and consultation processes. The CEFR Companion volume represents another step in a process of engagement with language education that has been pursued by the Council of Europe since 1971 and which seeks to: ► promote and support the learning and teaching of modern languages; ► enhance intercultural dialogue, and thus mutual understanding, social cohesion and democracy; ► protect linguistic and cultural diversity in Europe; and ► promote the right to quality education for all.

Representations of Discrete Functions Tsutomu Sasao 2012-12-06 Representations of Discrete Functions is an edited volume containing 13 chapter contributions from leading researchers with a focus on the latest research results. The first three chapters are introductions and contain many illustrations to clarify concepts presented in the text. It is recommended that these chapters are read first. The book then deals with the following topics: binary decision diagrams (BDDs), multi-terminal binary decision diagrams (MTBDDs), edge-valued binary decision diagrams (EVBDDs), functional decision diagrams (FDDs), Kronecker decision diagrams (KDDs), binary moment diagrams (BMDs), spectral transform decision diagrams (STDDs), ternary decision diagrams (TDDs), spectral transformation of logic functions, other transformations of logic functions, EXOR-based two-level expressions, FPRM minimization with TDDs and MTBDDs, complexity theories on FDDs, multi-level logic synthesis, and complexity of three-level logic networks. Representations of Discrete Functions is designed for CAD researchers and engineers and will also be of interest to computer scientists who are interested in combinatorial problems. Exercises prepared by the editors help make this book useful as a graduate level textbook.

The Plurilingualism Project Britta Hufeisen 2004-01-01 This publication contains a selection of papers submitted to five conferences held in European countries during 2000-2001, which explored the concept of plurilingualism focused on the development of principles and a framework for the promotion of teaching more than one foreign language in schools.

Proteomics Sample Preparation Jörg von Hagen 2011-08-24 This long-awaited first guide to sample preparation for proteomics studies overcomes a major bottleneck in this fast growing technique within the molecular life sciences. By addressing the topic from three different angles -- sample, method and aim of the study -- this practical reference has something for every proteomics researcher. Following an introduction to the field, the book looks at sample preparation for specific techniques and applications and finishes with a section on the preparation of sample types. For each method described, a summary of the pros and cons is given, as well as step-by-step protocols adaptable to any specific proteome analysis task.

Molecular Beams in Physics and Chemistry Bretislav Friedrich 2021-06-19 This Open Access book gives a comprehensive account of both the history and current achievements of molecular beam research. In 1919, Otto Stern launched the revolutionary molecular beam technique. This technique made it possible to send atoms and molecules with well-defined momentum through vacuum and to measure with high accuracy the deflections they underwent when acted upon by transversal forces. These measurements revealed unforeseen quantum properties of nuclei, atoms, and molecules that became the basis for our current understanding of quantum matter. This volume shows that many key areas of modern physics and chemistry owe their beginnings to the seminal molecular beam work of Otto Stern and his school. Written by internationally recognized experts, the contributions in this volume will help experienced researchers and incoming graduate students alike to keep abreast of current developments in molecular beam research as well as to appreciate the history and evolution of this powerful method and the knowledge it reveals.

Confocal Raman Microscopy Jan Toporski 2018-03-01 This second edition provides a cutting-edge overview of physical, technical and scientific aspects related to the widely used analytical method of confocal Raman microscopy. The book includes expanded background information and adds insights into how confocal Raman microscopy, especially 3D Raman imaging, can be integrated with other methods to produce a variety of correlative microscopy combinations. The benefits are then demonstrated and supported by numerous examples from the fields of materials science, 2D materials, the life sciences, pharmaceutical research and development, as well as the geosciences.

Nijkamp and Parnham's Principles of Immunopharmacology Michael J. Parnham 2019-12-10 Principles of Immunopharmacology provides a unique source of essential knowledge on the immune response, its diagnosis and its modification by drugs and chemicals. The 4th edition of this internationally recognized textbook has been revised to include recent developments, but continues the

established format, dealing with four related fields in a single volume, thus obviating the need to refer to several different textbooks. The first section of the book, providing a basic introduction to immunology and its relevance for human disease, has been updated to accommodate new immunological concepts, particularly the role of epigenetics and the latest understanding of cancer immunology. The second section on immunodiagnosics offers a topical description of widely used molecular techniques and a new chapter on imaging techniques. This is followed by a systematic coverage of drugs affecting the immune system, including natural products. This third section contains 15 updated chapters, covering classical immunopharmacological topics such as anti-asthmatic, anti-rheumatic and immunosuppressive drugs, but also deals with antibiotics, plant-derived and dietary agents, with new chapters on monoclonal antibodies, immunotherapy in sepsis and infection, drugs for soft-tissue autoimmunity and cell therapy. The book concludes with a chapter on immunotoxicology and drug safety tests. Aids to the reader include a two-column format, glossaries of technical terms and appendix reference tables. The emphasis on illustrations is maintained from the first three editions. The book is a valuable single reference for undergraduate and graduate medical and biomedical students, postgraduate chemistry and pharmacy students, researchers in chemistry, biochemistry and the pharmaceutical industry and researchers lacking basic immunological knowledge, who want to understand the actions of drugs on the immune system.

Recent Developments in Computational Finance Thomas Gerstner 2013 Computational finance is an interdisciplinary field which joins financial mathematics, stochastics, numerics and scientific computing. Its task is to estimate as accurately and efficiently as possible the risks that financial instruments generate. This volume consists of a series of cutting-edge surveys of recent developments in the field written by leading international experts. These make the subject accessible to a wide readership in academia and financial businesses. The book consists of 13 chapters divided into 3 parts: foundations, algorithms and applications. Besides surveys of existing results, the book contains many new previously unpublished results.

German Made Simple Arnold Leitner, PhD 2006-05-16 Learning German Has Never Been Easier! Whether you are studying the language in school, planning a trip to Germany or Austria, or trying to learn the basics of the language closest to English, German Made Simple is the perfect book for any self-learner. Void of all nonessentials and refreshingly easy to understand, German Made Simple includes: • Basics of German grammar • Modern German vocabulary • German pronunciation guide • German reading exercises • German economic information • Common German expressions • Review exercises • Complete answer key • German-English dictionary

Philosophical Anthropology Jesús Padilla Gálvez 2013-05-02 If we read Ludwig Wittgenstein's works and take his scientific formation in mathematical logic into account, it comes as a surprise that he ever developed a particular interest in anthropological questions. The following questions immediately

arise: What role does anthropology play in Wittgenstein's work? How do problems concerning mankind as a whole relate to his philosophy? How does his approach relate to philosophical anthropology? How does he view classical issues about Man's affairs and actions? The aim of this book is to investigate the anthropological questions that Wittgenstein raised in his works. The answers to the questions raised in this introduction may be found on the intersection between forms of life and radical translation from another culture into ours. The book presents an extensive analysis of anthropological issues with emphasis on language and social elements.

GNSS – Global Navigation Satellite Systems Bernhard Hofmann-Wellenhof
2007-11-20 This book extends the scientific bestseller "GPS - Theory and Practice" to cover Global Navigation Satellite Systems (GNSS) and includes the Russian GLONASS, the European system Galileo, and additional systems. The book refers to GNSS in the generic sense to describe the various existing reference systems for coordinates and time, the satellite orbits, the satellite signals, observables, mathematical models for positioning, data processing, and data transformation. This book is a university-level introductory textbook and is intended to serve as a reference for students as well as for professionals and scientists in the fields of geodesy, surveying engineering, navigation, and related disciplines.

Plant Electrophysiology Alexander G. Volkov 2007-04-19 This book compiles new findings in plant electrophysiology from the work of internationally renowned experts in the fields of electrophysiology, bio-electrochemistry, biophysics, signal transduction, phloem transport, tropisms, ion channels, plant electrochemistry, and membrane transport. Opening with a historical introduction, the book reviews methods in plant electrophysiology, introducing such topics as measuring membrane potentials and ion fluxes, patch-clamp technique, and electrochemical sensors. The coverage includes experimental results and their theoretical interpretation.

Teaching English as a Foreign Language Carola Surkamp 2018-03-24 Diese Einführung in englischer Sprache präsentiert in 14 Kapiteln die grundlegenden Themen und Gegenstandsbereiche der Englischdidaktik. Gleichermaßen praxisnah wie theoretisch fundiert, behandelt der Band zentrale Prinzipien und Kompetenzbereiche eines modernen Fremdsprachenunterrichts. Ausgehend von den zentralen Akteur/innen (Lehrende und Lernende) und mit Blick auf die Teilbereiche der Sprach-, Literatur- und Kulturdidaktik werden zudem Vorschläge für den Einsatz unterschiedlicher Materialien und Medien diskutiert. Weitere Kapitel widmen sich den institutionellen Organisationsstrukturen und dem Bereich Assessment/Diagnose. Der Band erscheint in zweifarbiger Gestaltung, mit Definitionen und Beispielen sowie mit zahlreichen Abbildungen. This comprehensive introduction presents the fundamental topics and issues of TEFL (Teaching English as a Foreign Language) in 14 chapters. Integrating both profound theoretical and creative practical considerations, the central principles and competence domains of modern foreign language teaching are discussed. Starting with the main classroom agents (teachers and learners), the

chapters outline a variety of content areas (language, literature, cultural issues) and thoroughly review materials, media and methods. Additional chapters are concerned with the historical development of English language teaching, its current institutional organisation as well as assessment and evaluation.

Human Pharmaceuticals, Hormones and Fragrances Thomas Ternes 2007-01-30 The observed concentrations of pharmaceuticals and personal care products (PPCPs) in raw wastewater confirm that municipal wastewater represents the main disposal pathway for the PPCPs consumed in households, hospitals and industry. In sewage treatment plant effluents most PPCPs are still present, since many of these polar and persistent compounds are being removed only partially or, in some cases, not at all. Treated wastewater therefore represents an important point source for PPCPs into the environment. After passing a sewage treatment plant the treated wastewater is mostly discharged into rivers and streams or sometimes used to irrigate fields. If drinking water is produced using resources containing a substantial proportion of treated wastewater (e.g. from river water downstream of communities) the water cycle is closed and indirect potable reuse occurs. *Human Pharmaceuticals, Hormones and Fragrances* provides an overview of the occurrence, analytics, removal and environmental risk of pharmaceuticals and personal care products in wastewater, surface water and drinking water. The book covers all aspects of the fate and removal of PPCPs in the whole water cycle: consumption and occurrence, analytical methods, the legal background, environmental risk assessment, human and animal toxicology, source control options, wastewater and drinking water treatment as well as indirect reuse. The book presents a summary of the results obtained during the EU project "Poseidon", combined with further expert knowledge on the field, and is written at a level appropriate for professionals involved in management of water resource quality. Professionals in the field including decision makers, engineers and scientists, as well as students entering the field, will find this an invaluable source of information. First comprehensive study on the assessment, fate and removal of pharmaceuticals and personal care products in wastewater and drinking water treatment. Emphasises the importance of micropollutants in the water cycle, provides methods for quantifying their fate and technologies for their removal.

Multivariate Approximation and Splines Günther Nürnberger 2012-12-06 This book contains the refereed papers which were presented at the international conference on "Multivariate Approximation and Splines" held in Mannheim, Germany, on September 7-10, 1996. Fifty experts from Bulgaria, England, France, Israel, Netherlands, Norway, Poland, Switzerland, Ukraine, USA and Germany participated in the symposium. It was the aim of the conference to give an overview of recent developments in multivariate approximation with special emphasis on spline methods. The field is characterized by rapidly developing branches such as approximation, data fitting, interpolation, splines, radial basis functions, neural networks, computer aided design methods, subdivision algorithms and wavelets. The research has applications in areas like industrial production, visualization, pattern recognition, image and signal processing, cognitive systems and modeling in geology, physics, biology and medicine. In

the following, we briefly describe the contents of the papers. Exact inequalities of Kolmogorov type which estimate the derivatives of multivariate periodic functions are derived in PICHUGOV. These inequalities are applied to the approximation of classes of multivariate periodic functions and to the approximation by quasi-polynomials. BAINOV, DISHLIEV and HRISTOVA investigate initial value problems for non linear impulse differential-difference equations which have many applications in simulating real processes. By applying iterative techniques, sequences of lower and upper solutions are constructed which converge to a solution of the initial value problem.

Algorithms and Theory of Computation Handbook, Second Edition, Volume 2 Mikhail J. Atallah 2009-11-20 Algorithms and Theory of Computation Handbook, Second Edition: Special Topics and Techniques provides an up-to-date compendium of fundamental computer science topics and techniques. It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems. Along with updating and revising many of the existing chapters, this second edition contains more than 15 new chapters. This edition now covers self-stabilizing and pricing algorithms as well as the theories of privacy and anonymity, databases, computational games, and communication networks. It also discusses computational topology, natural language processing, and grid computing and explores applications in intensity-modulated radiation therapy, voting, DNA research, systems biology, and financial derivatives. This best-selling handbook continues to help computer professionals and engineers find significant information on various algorithmic topics. The expert contributors clearly define the terminology, present basic results and techniques, and offer a number of current references to the in-depth literature. They also provide a glimpse of the major research issues concerning the relevant topics.

Foundations of Social Evolution Steven A. Frank 2019-12-31 This is a masterly theoretical treatment of one of the central problems in evolutionary biology, the evolution of social cooperation and conflict. Steven Frank tackles the problem with a highly original combination of approaches: game theory, classical models of natural selection, quantitative genetics, and kin selection. He unites these with the best of economic thought: a clear theory of model formation and comparative statics, the development of simple methods for analyzing complex problems, and notions of information and rationality. Using this unique, multidisciplinary approach, Frank makes major advances in understanding the foundations of social evolution. Frank begins by developing the three measures of value used in biology--marginal value, reproductive value, and kin selection. He then combines these measures into a coherent framework, providing the first unified analysis of social evolution in its full ecological and demographic context. Frank also extends the theory of kin selection by showing that relatedness has two distinct meanings. The first is a measure of information about social partners, with close affinity to theories of correlated equilibrium and Bayesian rationality in economic game theory. The second is a measure of the fidelity by which characters are transmitted to

future generations--an extended notion of heritability. Throughout, Frank illustrates his methods with many examples, including a complete reformulation of the theory of sex allocation. The book also provides a unique "how-to" guide for constructing models of social behavior. It is essential reading for evolutionary biologists and for economists, mathematicians, and others interested in natural selection.

Autonomous Driving Markus Maurer 2016-05-21 This book takes a look at fully automated, autonomous vehicles and discusses many open questions: How can autonomous vehicles be integrated into the current transportation system with diverse users and human drivers? Where do automated vehicles fall under current legal frameworks? What risks are associated with automation and how will society respond to these risks? How will the marketplace react to automated vehicles and what changes may be necessary for companies? Experts from Germany and the United States define key societal, engineering, and mobility issues related to the automation of vehicles. They discuss the decisions programmers of automated vehicles must make to enable vehicles to perceive their environment, interact with other road users, and choose actions that may have ethical consequences. The authors further identify expectations and concerns that will form the basis for individual and societal acceptance of autonomous driving. While the safety benefits of such vehicles are tremendous, the authors demonstrate that these benefits will only be achieved if vehicles have an appropriate safety concept at the heart of their design. Realizing the potential of automated vehicles to reorganize traffic and transform mobility of people and goods requires similar care in the design of vehicles and networks. By covering all of these topics, the book aims to provide a current, comprehensive, and scientifically sound treatment of the emerging field of "autonomous driving".

Becoming Fluent in German Philipp Eich 2020-04 Learning German may seem like a difficult task. Especially when it comes to the nature of the German language. The good news is that's just a false presumption. Every language can be learned if you know the right technique and the right information. It is proven that the easiest way to learn a language is to hear it in action. Hearing a natural German conversation is the best thing you can do, it's like listening to a story. Natural is the keyword in that sentence. A natural approach to learning the language is the fastest and simplest approach to do it. Why do you think you hear people learning a language extremely fast when they move to another country? Because they hear it naturally, every day. Learn German with stories . Maybe the easiest language learning system ever created. How does that sound to you? People listen to other people's stories. The human mind is programmed to like stories because that's what our life is. A story. And because of this very reason, I've crafted stories that will easily cut you months of struggling to learn German. There will no longer be a "struggle". Moving to Germany just to learn German is not a solution . That's why my book "brings" Germany to you. It brings stories to you. Learning German with my stories will grab your mind into believing that you will actually "live" into German conversations. When you're reading a story, you feel like you're there. The same concept applies to

learning German with stories. About my learning German with stories book : It contains 150 short stories about everyday situations Every story is followed by questions and key vocabulary The more you read, the easier your brain will automatically get used to the German language (isn't that easily beautiful?) It includes more than 900 digital flashcards for those not able to understand the book completely from the beginning It uses psychologically inserted KEY PATTERNS to make your brain automatically easily learn sentences and words (this is key) The book uses a read-word-repeat writing system along the stories for natural, fluid learning (heavy repetition = higher retention rate) The Benefits of using my book: Easily learn German with stories Feel at ease when reading & learning with the flow of the stories No struggle forcing to learn words/phrases Learn at your own pace Feel confident in your German language skills after a few weeks ONLY Once you learn, you NEVER forget Learn German with my stories (the easy way)

Diatoms Joseph Seckbach 2019-07-01 The aim of this new book series (Diatoms: Biology and Applications) is to provide a comprehensive and reliable source of information on diatom biology and applications. The first book of the series, Diatoms Fundamentals & Applications, is wide ranging, starting with the contributions of amateurs and the beauty of diatoms, to details of how their shells are made, how they bend light to their advantage and ours, and major aspects of their biochemistry (photosynthesis and iron metabolism). The book then delves into the ecology of diatoms living in a wide range of habitats, and look at those few that can kill or harm us. The book concludes with a wide range of applications of diatoms, in forensics, manufacturing, medicine, biofuel and agriculture. The contributors are leading international experts on diatoms. This book is for a wide audience researchers, academics, students, and teachers of biology and related disciplines, written to both act as an introduction to diatoms and to present some of the most advanced research on them.

Problem-Solving Strategies Arthur Engel 2008-01-19 A unique collection of competition problems from over twenty major national and international mathematical competitions for high school students. Written for trainers and participants of contests of all levels up to the highest level, this will appeal to high school teachers conducting a mathematics club who need a range of simple to complex problems and to those instructors wishing to pose a "problem of the week", thus bringing a creative atmosphere into the classrooms. Equally, this is a must-have for individuals interested in solving difficult and challenging problems. Each chapter starts with typical examples illustrating the central concepts and is followed by a number of carefully selected problems and their solutions. Most of the solutions are complete, but some merely point to the road leading to the final solution. In addition to being a valuable resource of mathematical problems and solution strategies, this is the most complete training book on the market.

Heinrich Hertz: Classical Physicist, Modern Philosopher D. Baird 2013-03-14 The sub-title of this symposium is accurate and, in a curious way, promises more

than it states: Classical Physicist, Modern Philosopher. Heinrich Hertz, as the consummate experimentalist of 19th century technique and as brilliant clarifying critic of physical theory of his time, achieved one of the fulfillments but at the same time opened one of the transition points of classical physics. Thus, in his 'popular' lecture 'On the Relations Between Light and Electricity' at Heidelberg in the Fall of 1889, Hertz identified the ether as henceforth the most fundamental problem of physics, as the conceptual mystery but also the key to understanding mass, electricity, and gravity. Of Hertz's demonstration of electric waves, Helmholtz told the Physical Society of Berlin: "Gentlemen! I have to communicate to you today the most important physical discovery of the century." Hertz, philosophizing in his direct, lucid, pithy style, once wrote "We have to imagine". Perhaps this is metaphysics on the horizon? In the early pages of his Principles of Mechanics, we read a doubt which makes an impression on our mind cannot be removed by calling it metaphysical: every thoughtful mind as such has needs which scientific men are accustomed to denote as metaphysical. (PM23) And at another place, concerning the terms 'force' and 'electricity' and the alleged mystery of their natures, Hertz wrote: We have an obscure feeling of this and want to have things cleared up.

Current Trends on Monomial and Binomial Ideals Huy Tài Hà 2020-03-18

Historically, the study of monomial ideals became fashionable after the pioneering work by Richard Stanley in 1975 on the upper bound conjecture for spheres. On the other hand, since the early 1990s, under the strong influence of Gröbner bases, binomial ideals became gradually fashionable in commutative algebra. The last ten years have seen a surge of research work in the study of monomial and binomial ideals. Remarkable developments in, for example, finite free resolutions, syzygies, Hilbert functions, toric rings, as well as cohomological invariants of ordinary powers, and symbolic powers of monomial and binomial ideals, have been brought forward. The theory of monomial and binomial ideals has many benefits from combinatorics and Gröbner bases. Simultaneously, monomial and binomial ideals have created new and exciting aspects of combinatorics and Gröbner bases. In the present Special Issue, particular attention was paid to monomial and binomial ideals arising from combinatorial objects including finite graphs, simplicial complexes, lattice polytopes, and finite partially ordered sets, because there is a rich and intimate relationship between algebraic properties and invariants of these classes of ideals and the combinatorial structures of their combinatorial counterparts. This volume gives a brief summary of recent achievements in this area of research. It will stimulate further research that encourages breakthroughs in the theory of monomial and binomial ideals. This volume provides graduate students with fundamental materials in this research area. Furthermore, it will help researchers find exciting activities and avenues for further exploration of monomial and binomial ideals. The editors express our thanks to the contributors to the Special Issue. Funds for APC (article processing charge) were partially supported by JSPS (Japan Society for the Promotion of Science) Grants-in-Aid for Scientific Research (S) entitled "The Birth of Modern Trends on Commutative Algebra and Convex Polytopes with

Statistical and Computational Strategies" (JP 26220701). The publication of this volume is one of the main activities of the grant.

Language Hacking German Benny Lewis 2017-11-14 It's true that some people spend years studying German before they finally get around to speaking the language. But here's a better idea. Skip the years of study and jump right to the speaking part. Sound crazy? No, it's language hacking. Unlike most traditional language courses that try to teach you the rules of German, #LanguageHacking shows you how to learn and speak German through proven memory techniques, unconventional shortcuts and conversation strategies perfected by one of the world's greatest language learners, Benny Lewis, aka the Irish Polyglot. Using the language hacks -shortcuts that make learning simple - that Benny mastered while learning his 11 languages and his 'speak from the start' method, you will crack the language code and exponentially increase your language abilities so that you can get fluent faster. It's not magic. It's not a language gene. It's not something only "other people" can do. It's about being smart with how you learn, learning what's indispensable, skipping what's not, and using what you've learned to have real conversations in German from day one. The Method #LanguageHacking takes a modern approach to language learning, blending the power of online social collaboration with traditional methods. It focuses on the conversations that learners need to master right away, rather than presenting language in order of difficulty like most courses. This means that you can have conversations immediately, not after years of study. Each of the 10 units culminates with a speaking 'mission' that prepares you to use the language you've learned to talk about yourself. Through the language hacker online learner community, you can share your personalized speaking 'missions' with other learners - getting and giving feedback and extending your learning beyond the pages of the book . You don't need to go abroad to learn a language any more.

Using Trends and Scenarios as Tools for Strategy Development Ulf Pillkahn 2008-09-26 Is my enterprise really prepared for future business? What can I do to become more competitive? Ulf Pillkahn's book is directed at all of those seeking answers to these questions: executives in strategic positions, business analysts, consultants, trend scouts, marketing and product managers and research engineers. The book presents the two most powerful tools for future planning: environmental analysis, based on the use of trends, as well as the development of visions of the future through the use of scenarios. While scenarios are generally regarded as a classical management tool, it is expected that the importance of trends will gain tremendously in the coming years. Pillkahn demonstrates how to build robust strategies by aligning the results of environmental and enterprise scenarios, thereby offering entirely new insights. "Using Trends and Scenarios as Tools for Strategy Development" convincingly illustrates why efficient observation of the environment of an enterprise is an absolutely essential factor for strategy development, and why strategy development only works if it is institutionalized as a permanent enterprise process. It also addresses the issue of what information is needed to keep both processes running. The book further describes how trends can be categorized,

and offers advice on how to glean the essential information from the vast variety of trends. Information is provided on how scenarios are used as a holistic instrument for creating visions and pictures of the future, and how the results of trend research and scenario techniques find their way into entrepreneurial strategy development. An optimized strategy development process is also outlined. Practical examples and real-life pictures of the future round off Pillkahn's insightful discussion of future business planning.

Advances in Production Management Systems. The Path to Intelligent, Collaborative and Sustainable Manufacturing Hermann Lödding 2017-08-28 The two-volume set IFIP AICT 513 and 514 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2017, held in Hamburg, Germany, in September 2017. The 121 revised full papers presented were carefully reviewed and selected from 163 submissions. They are organized in the following topical sections: smart manufacturing system characterization; product and asset life cycle management in smart factories of industry 4.0; cyber-physical (IIoT) technology deployments in smart manufacturing systems; multi-disciplinary collaboration in the development of smart product-service solutions; sustainable human integration in cyber-physical systems: the operator 4.0; intelligent diagnostics and maintenance solutions; operations planning, scheduling and control; supply chain design; production management in food supply chains; factory planning; industrial and other services; operations management in engineer-to-order manufacturing; gamification of complex systems design development; lean and green manufacturing; and eco-efficiency in manufacturing operations.

The Taming of Chance Ian Hacking 1990-08-31 This book combines detailed scientific historical research with characteristic philosophic breadth and verve.

Binomial Ideals Jürgen Herzog 2018-09-28 This textbook provides an introduction to the combinatorial and statistical aspects of commutative algebra with an emphasis on binomial ideals. In addition to thorough coverage of the basic concepts and theory, it explores current trends, results, and applications of binomial ideals to other areas of mathematics. The book begins with a brief, self-contained overview of the modern theory of Gröbner bases and the necessary algebraic and homological concepts from commutative algebra. Binomials and binomial ideals are then considered in detail, along with a short introduction to convex polytopes. Chapters in the remainder of the text can be read independently and explore specific aspects of the theory of binomial ideals, including edge rings and edge polytopes, join-meet ideals of finite lattices, binomial edge ideals, ideals generated by 2-minors, and binomial ideals arising from statistics. Each chapter concludes with a set of exercises and a list of related topics and results that will complement and offer a better understanding of the material presented. Binomial Ideals is suitable for graduate students in courses on commutative algebra, algebraic combinatorics, and statistics. Additionally, researchers interested in any of these areas but

familiar with only the basic facts of commutative algebra will find it to be a valuable resource.

Human Interaction, Emerging Technologies and Future Applications III Tareq Ahram 2020-08-05 This book reports on research and developments in human-technology interaction. A special emphasis is given to human-computer interaction, and its implementation for a wide range of purposes such as healthcare, aerospace, telecommunication, and education, among others. The human aspects are analyzed in detail. Timely studies on human-centered design, wearable technologies, social and affective computing, augmented, virtual and mixed reality simulation, human rehabilitation and biomechanics represent the core of the book. Emerging technology applications in business, security, and infrastructure are also critically examined, thus offering a timely, scientifically-grounded, but also professionally-oriented snapshot of the current state of the field. The book is based on contributions presented at the 3rd International Conference on Human Interaction and Emerging Technologies: Future Applications, IHiet 2020, held on August 27-29, 2020. It offers a timely survey and a practice-oriented reference guide to researchers and professionals dealing with design and/or management of the new generation of service systems.