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PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. This contributed volume brings together the highest quality expository papers written by leaders and talented junior mathematicians in the field of Commutative Algebra. Contributions cover a very wide range of topics, including core areas in Commutative Algebra and also relations to Algebraic Geometry, Algebraic Combinatorics, Hyperplane Arrangements, Homological Algebra, and String Theory. The book aims to showcase the area, especially for the benefit of junior mathematicians and researchers who are new to the field; it will aid them in broadening their background and to gain a deeper understanding of the current research in this area. Exciting developments are surveyed and many open problems are discussed with the aspiration to inspire the readers and foster further research. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. The material presented in this volume represents current ideas, knowledge, experience and research results in various fields of control system design. Recent developments are covered Contains over 100 figures and 250 exercises Includes complete proofs Contains selection of expository and research article by lecturers at the school. Highlights current interests of researchers

working at the interface between string theory and algebraic supergravity, supersymmetry, D-branes, the McKay correspondence and Fourier-Mukai transform.

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The two-volume set LNCS 6755 and LNCS 6756 constitutes the refereed proceedings of the 38th International Colloquium on Automata, Languages and Programming, ICALP 2011, held in Zürich, Switzerland, in July 2011. The 114 revised full papers (68 papers for track A, 29 for track B, and 17 for track C) presented together with 4 invited talks, 3 best student papers, and 3 best papers were carefully reviewed and selected from a total of 398 submissions. The papers are grouped in three major tracks on algorithms, complexity and games; on logic, semantics, automata, and theory of programming; as well as on foundations of networked computation: models, algorithms and information management.

More than 7000 trade name products and more than 2500 generic chemicals that can be used in formulations to meet environmental concerns and government regulations. This reference is designed to serve as an essential tool in the strategic decision-making process of chemical selection when focusing on human and environmental safety factors.

Industries Covered: Adhesives ? Refrigerants ? Water Treatment ? Plastics ? Rubber ? Surfactants ? Paints & Coatings ? Food ? Pharmaceuticals ? Cosmetics ? Petroleum Processing ? Metal Treatment ? Textiles

The chemicals and materials included are used in every aspect of the chemical industry. The reference is organized so that the reader can access the information based on the trade name, chemical components, functions and application areas, 'green' attributes, manufacturer, CAS number, and EINECS/ELINCS number. It contains a unique cross-reference that groups the trade name chemicals by one or more of these green chemical attributes: Biodegradable ? Environmentally Safe ? Environmentally Friendly ? Halogen-Free ? HAP's-Free ? Low Global Warming ? Low Ozone-Depleting ? Non-ozone-Depleting ? Low Vapor Pressure ? Noncarcinogenic ? Non-CFC ? Non-HCFC ? Nonhazardous ? Nontoxic ? Recyclable ? SARA-Nonreportable ? SNAP (Significant New Alternative Policy) Compliant ? VOC-Compliant ? Low-VOC ? VOC-Free

Provides information on the truck and specialty vehicles business, including: automotive industry trends and market research; mergers, acquisitions, globalization; automobile manufacturers; truck makers; makers of specialty vehicles such as RVs; automobile loans, insurance and other financial services; dealerships; and, components manufacturers.

Almost all branches of chemistry and material science now interface with organometallic chemistry - the study of compounds containing carbon-metal bonds. This widely acclaimed serial contains authoritative reviews that address all aspects of organometallic chemistry, a field which has expanded enormously since the publication of Volume 1 in 1964. Provides an authoritative, definitive review addressing all aspects of organometallic chemistry. Useful to all researchers within this active field and is a must for every modern

library of chemistry High quality research book within this rapidly developing field Brewing is one of the oldest and most complex technologies in food and beverage processing. Its success depends on blending a sound understanding of the science involved with an equally clear grasp of the practicalities of production. Brewing: science and practice provides a comprehensive and authoritative guide to both of these aspects of the subject. After an initial overview of the brewing process, malts, adjuncts and enzymes are reviewed. A chapter is then devoted to water, effluents and wastes. There follows a group of chapters on the science and technology of mashing, including grist preparation. The next two chapters discuss hops, and are followed by chapters on wort boiling, clarification and aeration. Three chapters are devoted to the important topics of yeast biology, metabolism and growth. Fermentation, fermentation technologies and beer maturation are then reviewed, followed by a consideration of native African beers. After a discussion of brewhouses, the authors consider a number of safety and quality issues, including beer microbiology and the chemical and physical properties of beer, which contribute to qualities such as flavour. A final group of chapters cover packaging, storage, distribution and the retail handling of beer. Based on the authors' unrivalled experience in the field, Brewing: science and practice is a standard work for the industry. A detailed account of all stages of the brewing process Safety and quality issues are discussed, including the chemical and physical properties of beer and beer microbiology A strong partnership of the science and the practicalities of production ensures this book is a primary reference This book explores the use of numerical relativity (NR) methods to solve cosmological problems, and describes one of the first uses of NR to study inflationary physics. NR consists in the solution of Einstein's Equation of general relativity, which governs the evolution of matter and energy on cosmological scales, and in systems where there are strong gravitational effects, such as around black holes. To date, NR has mainly been used for simulating binary black hole and neutron star mergers like those detected recently by LIGO. Its use as a tool in fundamental problems of gravity and cosmology is novel, but rapidly gaining interest. In this thesis, the author investigates the initial condition problem in early universe cosmology - whether an inflationary expansion period could have "got going" from initially inhomogeneous conditions - and identifies criteria for predicting the robustness of particular models. State-of-the-art numerical relativity tools are developed in order to address this question, which are now publicly available. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. The 32nd International Conference on High Energy Physics belongs to the Rochester Conference Series, and is the most important international conference in 2004 on high energy physics. The proceedings provide a comprehensive review on the recent developments in experimental and theoretical particle physics. The latest results on Top, Higgs

search, CP violation, neutrino mixing, pentaquarks, heavy quark mesons and baryons, search for new particles and new phenomena, String theory, Extra dimension, Black hole and Lattice calculation are discussed extensively. The topics covered include not only those of main interest to the high energy physics community, but also recent research and future plans. Contents: Neutrino Masses and Mixings Quark Matter and Heavy Ion Collisions Particle Astrophysics and Cosmology Electroweak Physics QCD Hard Interactions QCD Soft Interactions Computational Quantum Field Theory CP Violation, Rare Kaon Decay and CKM R&D for Future Accelerator and Detector Hadron Spectroscopy and Exotics Heavy Quark Mesons and Baryons Beyond the Standard Model String Theory Readership: Experimental and theoretical physicists and graduate students in the fields of particle physics, nuclear physics, astrophysics and cosmology. Keywords: High Energy Physics; Particle Physics; Electroweak; QCD; Heavy Quark; Neutrino; Particle Astrophysics; Hadron Spectroscopy; CP Violation; Quark Matter; Future Accelerator

**BMW Z4: Design, Development and Production** is the story of the creation of the Z4 from the first concept in the summer of 1998 until the delivery of customer cars in October 2002. David Lightfoot had exclusive access to the designers, engineers, and production personnel involved in the Z4, and provides an exciting behind-the-scenes look into the process. Never before has the story been told of how BMW brings together creative people and world renowned technical resources to deliver dream machines to its devoted clientele. David Lightfoot is a BMW enthusiast of the first order. He writes for Roundel, the publication of the BMW Car Club of America, on topics ranging from BMW history to future products and development. A particular interest is high performance driving; he has been an instructor with his local BMW Club for more than 20 years. The irony of his driving style and his last name have been brought to his attention many times. He is a lifelong resident of Seattle, Washington. This is his first book.

**Relativistic hydrodynamics** is a very successful theoretical framework to describe the dynamics of matter from scales as small as those of colliding elementary particles, up to the largest scales in the universe. This book provides an up-to-date, lively, and approachable introduction to the mathematical formalism, numerical techniques, and applications of relativistic hydrodynamics. The topic is typically covered either by very formal or by very phenomenological books, but is instead presented here in a form that will be appreciated both by students and researchers in the field. The topics covered in the book are the results of work carried out over the last 40 years, which can be found in rather technical research articles with dissimilar notations and styles. The book is not just a collection of scattered information, but a well-organized description of relativistic hydrodynamics, from the basic principles of statistical kinetic theory, down to the technical aspects of numerical methods devised for the solution of the equations, and over to the applications in modern physics and astrophysics. Numerous figures, diagrams, and a variety of exercises aid the material in the book. The most obvious applications of this work range from

astrophysics (black holes, neutron stars, gamma-ray bursts, and active galaxies) to cosmology (early-universe hydrodynamics and phase transitions) and particle physics (heavy-ion collisions). It is often said that fluids are either seen as solutions of partial differential equations or as "wet". Fluids in this book are definitely wet, but the mathematical beauty of differential equations is not washed out. A comprehensive introduction to the tools, techniques and applications of convex optimization. Rationality - as opposed to 'ad-hoc' - and asymptotics - to emphasize the fact that perturbative methods are at the core of the theory - are the two main concepts associated with the Rational Asymptotic Modeling (RAM) approach in fluid dynamics when the goal is to specifically provide useful models accessible to numerical simulation via high-speed computing. This approach has contributed to a fresh understanding of Newtonian fluid flow problems and has opened up new avenues for tackling real fluid flow phenomena, which are known to lead to very difficult mathematical and numerical problems irrespective of turbulence. With the present scientific autobiography the author guides the reader through his somewhat non-traditional career; first discovering fluid mechanics, and then devoting more than fifty years to intense work in the field. Using both personal and general historical contexts, this account will be of benefit to anyone interested in the early and contemporary developments of an important branch of theoretical and computational fluid mechanics.

Food proteomics is one of the most dynamic and fast-developing areas in food science. The goal of this book is to be a reference guide on the principles and the current and future potential applications of proteomics in food science and technology. More specifically, the book will discuss recent developments and the expected trends of the near future in food proteomics. The book will be divided into two parts. The first part (7 chapters) will focus on the basic principles for proteomics, e.g., sample preparation, such as extraction and separation techniques, analytical instrumentation currently in use, and available databases for peptide and protein identification. The second part of the book (26 chapters) will focus on applications in foods. It will deal with quality issues related to post-mortem processes in animal foods and quality traits for all foods in general, as well as the identification of bioactive peptides and proteins, which are very important from the nutritional point of view. Furthermore, consumers are now extremely susceptible to food safety issues, and proteomics can provide reassurance with different safety aspects, such as food authenticity, detection of animal species in the food, and identification of food allergens. All of these issues will be covered in this book. It is also worth noting that both editors are internationally recognized experts in the field of food science, and both have edited numerous food science books and handbooks. This seminal, much-cited account begins with a fairly elementary exposition of basic concepts and a discussion of factor groups and subgroups. The topics of Nielsen transformations, free and amalgamated products, and commutator calculus receive detailed treatment. The concluding chapter surveys word, conjugacy, and related problems; adjunction and embedding

problems; and more. Second, revised 1976 edition. A history of Americans who spied against their country and what their stories reveal about national security. What's your secret? *American Spies* presents the stunning histories of more than forty Americans who spied against their country during the past six decades. Michael Sulick, former head of the CIA's clandestine service, illustrates through these stories—some familiar, others much less well known—the common threads in the spy cases and the evolution of American attitudes toward espionage since the onset of the Cold War. After highlighting the accounts of many who have spied for traditional adversaries such as Russian and Chinese intelligence services, Sulick shows how spy hunters today confront a far broader spectrum of threats not only from hostile states but also substate groups, including those conducting cyberespionage. Sulick reveals six fundamental elements of espionage in these stories: the motivations that drove them to spy; their access and the secrets they betrayed; their tradecraft, or the techniques of concealing their espionage; their exposure; their punishment; and, finally, the damage they inflicted on America's national security. The book is the sequel to Sulick's popular *Spying in America: Espionage from the Revolutionary War to the Dawn of the Cold War*. Together they serve as a basic introduction to understanding America's vulnerability to espionage, which has oscillated between peacetime complacency and wartime vigilance, and continues to be shaped by the inherent conflict between our nation's security needs and our commitment to the preservation of civil liberties. Now available in paperback, with a new preface that brings the conversation up to the present, *American Spies* is as insightful and relevant as ever. The meeting took place at the University of Milano-Bicocca, Milan, Italy, from June 7 to June 10, 2004, and it was organized by the University of Milano-Bicocca and the Department of Informatics of the University of Milano-Bicocca. This graduate-level text is intended for initial courses in algebra that begin with first principles but proceed at a faster pace than undergraduate-level courses. It employs presentations and proofs that are accessible to students, and it provides numerous concrete examples. Exercises appear throughout the text, clarifying concepts as they arise; additional exercises, varying widely in difficulty, are included at the ends of the chapters. Subjects include groups, rings, fields and Galois theory, modules, and structure of rings and algebras. Further topics encompass infinite Abelian groups, transcendental field extensions, representations and characters of finite groups, Galois groups, and additional areas. Based on many years of classroom experience, this self-contained treatment breathes new life into abstract concepts. "The letters presented in the book were mainly written between 1955 and 1965. During this period, algebraic geometry went through a remarkable transformation, and Grothendieck and Serre were among central figures in this process. The reader can follow the creation of some of the most important notions of modern mathematics, like sheaf cohomology, schemes, Riemann-Roch type theorems, algebraic fundamental group, motives. The letters also reflect the mathematical and political atmosphere of this period

(Bourbaki, Paris, Harvard, Princeton, war in Algeria, etc.) Also included are a few letters written between 1984 and 1987. The letters are supplemented by J.-P. Serre's notes, which give explanations, corrections, and references further results." "The book should be useful to specialists in algebraic geometry, in history of mathematics, and to all mathematicians who want to understand how great mathematics is created."--BOOK JACKET. Includes a revised taxonomic outline for the phyla Bacteroidetes, Planctomycetes, Chlamydiae, Spirochetes, Fibrobacteres, Fusobacteria, Acidobacteria, Verrucomicrobia, Dictyoglomi, and Gemmatimonadetes based upon the SILVA project as well as a description of more than 153 genera in 29 families. Includes many medically important taxa.

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