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Proceedings of a NATO ARW held in Saint Jacut de la Mer, Brittany, France, May 3-8, 1992 This comprehensive work thoroughly introduces and reviews the set of results from Belle and BaBar - after more than two decades of independent and complementary work - all the way from the detectors and the analysis tools used, up to the physics results, and the interpretation of these results. The world's two giant B Factory collaborations, Belle at KEK and BaBar at SLAC, have successfully completed their main mission to discover and quantify CP violation in the decays of B mesons. CP violation is a necessary requirement to distinguish unambiguously between matter and antimatter. The shared primary objective of the two B Factory experiments was to determine the shape of the so-called unitarity triangle, an abstract triangle representing interactions of quarks, the elementary constituents of matter. The area of the triangle is a measure of the amount of CP violation associated with the weak force. Many other measurements have been performed by the B Factories and are also discussed in this work. Completely revised and updated edition. The book covers the entire field of satellite geodesy (status spring/break summer 2002). Basic chapters on reference systems, time, signal propagation, and satellite orbits are updated. All currently important observation methods are included and also all newly launched satellites of interest to geodesy. Particular emphasis is given to the current status of the Global Positioning System (GPS), which covers now about one third of the book. A new chapter on Differential GPS and active GPS reference networks is included. The GPS modernization plans, GLONASS, the forthcoming European system GALILEO, modern developments in GPS data analysis, error modelling, precise real time methods and ambiguity resolution are dealt with in detail. New satellite laser ranging missions, new altimetry missions (e.g. TOPEX/Poseidon, ERS-1/2, GFO, JASON), and new and forthcoming gravity field missions (CHAMP, GRACE, GOCE) are also considered. The book serves as a textbook for advanced undergraduate and graduate students, as well as a reference for professionals and scientists in the field of engineering and geosciences such as geodesy, surveying, geo-information, navigation, geophysics and oceanography. Haynes disassembles every subject vehicle and documents every step with thorough instructions and clear photos. Haynes repair manuals are used by the pros, but written for the do-it-yourselfer. Physics is all around us. From taking a walk to driving your car, from microscopic processes to the enormity of space, and in the everchanging technology of our modern world, we encounter physics daily. As physics is a subject we are constantly immersed in and use to forge tomorrow's most exciting discoveries, our goal is to remove the intimidation factor of physics and replace it with a sense of curiosity and wonder. Physics for Scientists and Engineers takes this approach using inspirational examples and applications to bring physics to life in the most relevant and real ways for its students. The text is written with Canadian students and instructors in mind and is informed by Physics Education Research (PER) with international context and examples. Physics for Scientists and Engineers gives students unparalleled practice opportunities and digital support to foster student comprehension and success. Jets are ubiquitous in the Universe, but ill-understood. Conservative books base their interpretations on focused stellar winds, ejected "bullets", black-hole central engines, and in-situ upgrading of electron energies via shocks. This volume, however, attempts a uniform interpretation of the bipolar-flow family, involving extremely relativistic pair plasma as the jet substance, and rotating magnets (possibly burning disks) as the central engines. Among the discussed sources are SS 433, YSO jets, planetary nebulae, our galactic center, and the class of extragalactic QSOs, both radio-loud and radio-quiet. Mathematics was only one area of interest for Gerolamo Cardano — the sixteenth-century astrologer, philosopher, and physician was also a prolific author and inveterate gambler. Gambling led Cardano to the study of probability, and he was the first writer to recognize that random events are governed by mathematical laws. Published posthumously in 1663, Cardano's *Liber de ludo aleae* (Book on Games of Chance) is often considered the major starting point of the study of mathematical probability. The Italian scholar formulated some of the field's basic ideas more than a century before the better-known correspondence of Pascal and Fermat. Although his book had no direct influence on other early thinkers about probability, it remains an important antecedent to later expressions of the science's tenets. High energy gamma-ray photons are the prime probes of the relativistic or high-energy universe, populated by black holes, neutron stars, supernovae, quasars, and matter-antimatter annihilations. Through studying the gamma-ray sky, astrophysicists are able to better understand the formation and behavior of these exotic and energetic bodies. Very High Energy Gamma-Ray Astronomy summarizes the status of gamma-ray astronomy at energies between 30MeV and 50TeV at a critical point in the development of the discipline: the hiatus between the demise of the EGRET telescope and the launch of the next generation of space telescopes. Starting with an overview of the astrophysics of the bodies that generate high energy gamma rays, it proceeds to discuss the latest developments in observational techniques and equipment. By presenting the techniques, observations, and theories of this expanding frontier, Very High Energy Gamma-Ray Astronomy aids experimentalists and theoreticians in detecting and explaining gamma rays of the highest energies. The book first rigorously develops the theory of reproducing kernel Hilbert spaces. The authors then discuss the Pick problem of finding the function of smallest H^∞ norm that has specified values at a finite number of points in the disk. Their viewpoint is to consider H^∞ as the multiplier algebra of the Hardy space and to use Hilbert space techniques to solve the problem. This approach generalizes to a wide collection of spaces. The authors then consider the interpolation problem in the space of bounded analytic functions on the bidisk and give a complete description of the solution. They then consider very general interpolation problems. The book includes developments of all the theory that is needed, including operator model theory, the Arveson extension theorem, and the hereditary functional calculus. The storage of electroenergy is an essential feature of modern energy technologies. Unfortunately, no economical and technically feasible method for the solution of this severe problem is presently available. But electrochemistry is a favourite candidate from an engineering point of view. It promises the highest energy densities of all possible alternatives. If this is true, there will be a proportionality between the amount of electricity to be stored and the possible voltage, together with the mass of materials which make this storage possible. Insofar it is a matter of material science to develop adequate systems. Electricity is by far the most important secondary energy source. The present production rate, mainly in the thermal electric power stations, is in the order of 1.3 TW. Rechargeable batteries (RB) are of widespread use in practice for electroenergy storage and supply. The total capacity of primary and rechargeable batteries being exploited is the same as that of the world electric power stations. However, the important goal in the light of modern energy technology, namely the economical storage of large amounts of electricity for electric vehicles, electric route transport, load levelling, solar energy utilization, civil video & audio devices, earth and spatial communications, etc. will not be met by the presently available systems. Unless some of the new emerging electrochemical systems are established up to date, RB's based on aqueous acidic or alkali accumulators are mainly produced today. From the infinitesimal scale of particle physics to the cosmic scale of the universe, research is concerned with the nature of mass. While there have been spectacular advances in physics during the past century, mass still remains a mysterious entity at the forefront of current research. Our current perspective on gravitation has arisen over millennia, through the contemplation of falling apples, lift thought experiments and notions of stars spiraling into black holes. In this volume, the

world's leading scientists offer a multifaceted approach to mass by giving a concise and introductory presentation based on insights from their respective fields of research on gravity. The main theme is mass and its motion within general relativity and other theories of gravity, particularly for compact bodies. Within this framework, all articles are tied together coherently, covering post-Newtonian and related methods as well as the self-force approach to the analysis of motion in curved space-time, closing with an overview of the historical development and a snapshot on the actual state of the art. All contributions reflect the fundamental role of mass in physics, from issues related to Newton's laws, to the effect of self-force and radiation reaction within theories of gravitation, to the role of the Higgs boson in modern physics. High-precision measurements are described in detail, modified theories of gravity reproducing experimental data are investigated as alternatives to dark matter, and the fundamental problem of reconciling any theory of gravity with the physics of quantum fields is addressed. Auxiliary chapters set the framework for theoretical contributions within the broader context of experimental physics. The book is based upon the lectures of the CNRS School on Mass held in Orléans, France, in June 2008. All contributions have been anonymously refereed and, with the cooperation of the authors, revised by the editors to ensure overall consistency.

Imagine what you could do if scalability wasn't a problem. With this hands-on guide, you'll learn how the Cassandra database management system handles hundreds of terabytes of data while remaining highly available across multiple data centers. This expanded second edition—updated for Cassandra 3.0—provides the technical details and practical examples you need to put this database to work in a production environment. Authors Jeff Carpenter and Eben Hewitt demonstrate the advantages of Cassandra's non-relational design, with special attention to data modeling. If you're a developer, DBA, or application architect looking to solve a database scaling issue or future-proof your application, this guide helps you harness Cassandra's speed and flexibility. Understand Cassandra's distributed and decentralized structure Use the Cassandra Query Language (CQL) and cqlsh—the CQL shell Create a working data model and compare it with an equivalent relational model Develop sample applications using client drivers for languages including Java, Python, and Node.js Explore cluster topology and learn how nodes exchange data Maintain a high level of performance in your cluster Deploy Cassandra on site, in the Cloud, or with Docker Integrate Cassandra with Spark, Hadoop, Elasticsearch, Solr, and Lucene Written by an Australian automotive designer with 45 years' experience, 'Crayon to CAD' is a unique book about cars and people, places and technologies. In engaging, non-technical language, 'Crayon to CAD' tracks the progress of automotive designers and their work in Australia, from drawing board and crayon to sophisticated computer technologies (CAD). Central to the history of post-war automotive design in Australia are stories of individuals throughout the decades. 'Crayon to CAD' features biographical chronicles of over 20 industry luminaries, all with wide-ranging backgrounds and experience. Although the book's storyline focusses on Australian mass-volume manufacturers – Ford, Holden, Chrysler/Mitsubishi, Toyota, Nissan and BMC/Leyland – it also showcases low-volume niche manufacturers such as Bolwell, Giocattolo and Buckle. A highlight of 'Crayon to CAD' is the inclusion of 'insider' material, drawn from the author's extensive experience and published here for the first time. Information and many images with in-depth captions have been sourced from previously-unreleased corporate and private archives. This 336-page limited edition hardback coffee table book, features both archival black-and-white photographs and illustrations, as well as lavish full-page colour images. The first 100 Collector's Edition copies are presented in a deluxe slipcase, individually numbered and signed by the author. 'Crayon to CAD' has been written as an acknowledgment to Australian automotive designers, recognising their significant contribution to iconic Australian cars and motoring history. "Provides service and repair information for the fifth generation, also known as the A5 platform Volkswagen Jetta"--Provided by publisher. Take on the challenge of becoming a chess player using this book to give you a solid foundation of the basics. Chess might seem harder to play than checkers, but once you understand the moves and the rules, it can be truly enjoyable! Among many other topics you'll learn here: - The ancient origins of chess and how it evolved over time - How each piece moves and how to apply the basic rules - The most successful chess strategies to dominate every game - How to apply superior opening tactics and strategies to win every game - How to craft a superior middlegame plan to prepare for a successful endgame - To deliver the final strike when the two fighting minds reach the decisive phase of endgame - And so much more. You know you need to checkmate your opponent before he checkmates you. But checkmate isn't as easy as it sounds. Wrestling your opponent's king into a position to checkmate him can take hours. Many casual players lacking the know-how give up on endgames they're certain to win. Intelligent Computing for Interactive System Design provides a comprehensive resource on what has become the dominant paradigm in designing novel interaction methods, involving gestures, speech, text, touch and brain-controlled interaction, embedded in innovative and emerging human-computer interfaces. These interfaces support ubiquitous interaction with applications and services running on smartphones, wearables, in-vehicle systems, virtual and augmented reality, robotic systems, the Internet of Things (IoT), and many other domains that are now highly competitive, both in commercial and in research contexts. This book presents the crucial theoretical foundations needed by any student, researcher, or practitioner working on novel interface design, with chapters on statistical methods, digital signal processing (DSP), and machine learning (ML). These foundations are followed by chapters that discuss case studies on smart cities, brain-computer interfaces, probabilistic mobile text entry, secure gestures, personal context from mobile phones, adaptive touch interfaces, and automotive user interfaces. The case studies chapters also highlight an in-depth look at the practical application of DSP and ML methods used for processing of touch, gesture, biometric, or embedded sensor inputs. A common theme throughout the case studies is ubiquitous support for humans in their daily professional or personal activities. In addition, the book provides walk-through examples of different DSP and ML techniques and their use in interactive systems. Common terms are defined, and information on practical resources is provided (e.g., software tools, data resources) for hands-on project work to develop and evaluate multimodal and multi-sensor systems. In a series of in-chapter commentary boxes, an expert on the legal and ethical issues explores the emergent deep concerns of the professional community, on how DSP and ML should be adopted and used in socially appropriate ways, to most effectively advance human performance during ubiquitous interaction with omnipresent computers. This carefully edited collection is written by international experts and pioneers in the fields of DSP and ML. It provides a textbook for students and a reference and technology roadmap for developers and professionals working on interaction design on emerging platforms. The second edition of a bestseller, this book presents the latest innovative research methods that help break new ground by applying patterns, reuse, and design science to research. The book relies on familiar patterns to provide the solid fundamentals of various research philosophies and techniques as touchstones that demonstrate how to innovate research methods. Filled with practical examples of applying patterns to IT research with an emphasis on reusing research activities to save time and money, this book describes design science research in relation to other information systems research paradigms such as positivist and interpretivist research. The purpose of the book is to provide an overview of clinical research (types), activities, and areas where informatics and IT could fit into various activities and business practices. This book will introduce and apply informatics concepts only as they have particular relevance to clinical research settings. Proceedings of the 3rd China Satellite Navigation Conference (CSNC2012) presents selected research papers from CSNC2012, held on 15-19 May in Guanzhou, China. These papers discuss the technologies and applications of the Global Navigation Satellite System (GNSS), and the latest progress made in the China BeiDou system especially. They are divided into 9 topics to match the corresponding sessions in CSNC2012, which broadly covered key topics in GNSS. Readers can learn about the BeiDou system and keep abreast of the latest advances in GNSS techniques and applications. SUN Jiadong is the Chief Designer of the Compass/BeiDou system, and the Academician of Chinese Academy of Sciences; LIU Jingnan is a professor at Wuhan University, and the Academician of Chinese Academy of Engineering; YANG Yuanxi is a professor at China National Administration of GNSS and Applications, and the Academician of Chinese Academy of Sciences; FAN Shiwei is a researcher on satellite navigation. Dark matter is among the most important open problems in modern physics. Aimed at graduate students and researchers, this book describes the theoretical and experimental aspects of the dark matter problem in particle physics, astrophysics and cosmology. Featuring contributions from 48 leading theorists and experimentalists, it presents many aspects, from astrophysical observations to particle physics candidates, and from the prospects for detection at colliders to direct and indirect searches. The book introduces observational evidence for dark matter along with a detailed discussion of the state-of-the-art of numerical simulations and alternative explanations in terms of modified gravity. It then moves on to the candidates arising from theories beyond the Standard Model of particle physics, and to the prospects for detection at accelerators. It concludes by looking at direct and indirect dark matter searches, and the prospects for detecting the particle nature of dark matter with astrophysical experiments.

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