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Handbook of Granular ComputingWireless Networking TechnologyOp Amps for EveryoneHieroglyphicaDigest of Technical PapersIntelligent Information Processing and Web MiningHandbook of Air Conditioning and RefrigerationDefining LanguageAssessment SensitivityEuroWordNet: A multilingual database with lexical semantic networksRobust ControlBenford's LawAn Architectural and Practical Guide to IBM Hybrid Integration PlatformOxford Handbook of Clinical SpecialtiesRelative TruthBasic Linguistic Theory Volume 3Advanced IT ToolsProceedings of the 33rd International MATADOR ConferenceInsect Morphology and PhylogenyInformation and Software Technologies(ISC)2 CCSP Certified Cloud Security Professional Official Practice TestsThe Brill Dictionary of Ancient GreekGraph-Based Semi-Supervised LearningProtocols for Cytogenetic Mapping of Arthropod GenomesLectures on MatricesConceptual Structures for Knowledge Creation and CommunicationHyperconverged Infrastructure Data CentersOracle Blockchain Quick Start GuideCMOS analog circuit designInterpreting Data in Senior PhysicsRelativistic Theory of Atoms and Molecules IIIOntology Learning and Population: Bridging the Gap Between Text and KnowledgeThe Journal of Chemical PhysicsBorror and Delong's Introduction to the Study of InsectsBasic Linguistic Theory Volume 2The Tombs of MesaraGray Hat Hacking: The Ethical Hacker's Handbook, Fifth EditionReconstructive MicrosurgeryTexts, Languages [and] Information Technology in EgyptologyProceedings of the First International Workshop on Issues of Sentiment Discovery and Opinion Mining Witold Pedrycz Steve A. Rackley Bruce Carter Nicolas Grimal Mieczyslaw A. Klopotek Shan K. Wang Geoff Barnbrook John Gordon MacFarlane Piek Vossen Andrzej Bartoszewicz Steven J. Miller Carsten Börnert Andrew Baldwin Manuel García-Carpintero R. M. W. Dixon Nobuyoshi Terashima David R. Hayhurst Rolf G. Beutel Robertas Damaševičius Ben Malisow Franco Montanari Amarnag Subramanya Igor V. Sharakhov J. H. M. Wedderburn Aldo de Moor Sam Halabi Vivek Acharya Allen Philip & Holberg Doug Grahame Dobinson Pekka Pyykkö P. Buitelaar Norman Johnson R. M. W. Dixon Keith

Branigan Daniel Regalado Bernard McC. O'Brien Stéphane Polis Erik Cambria

Handbook of Granular Computing Wireless Networking Technology Op Amps for Everyone Hieroglyphica Digest of Technical Papers Intelligent Information Processing and Web Mining Handbook of Air Conditioning and Refrigeration Defining Language Assessment Sensitivity EuroWordNet: A multilingual database with lexical semantic networks Robust Control Benford's Law An Architectural and Practical Guide to IBM Hybrid Integration Platform Oxford Handbook of Clinical Specialties Relative Truth Basic Linguistic Theory Volume 3 Advanced IT Tools Proceedings of the 33rd International MATADOR Conference Insect Morphology and Phylogeny Information and Software Technologies (ISC)2 CCSP Certified Cloud Security Professional Official Practice Tests The Brill Dictionary of Ancient Greek Graph-Based Semi-Supervised Learning Protocols for Cytogenetic Mapping of Arthropod Genomes Lectures on Matrices Conceptual Structures for Knowledge Creation and Communication Hyperconverged Infrastructure Data Centers Oracle Blockchain Quick Start Guide CMOS analog circuit design Interpreting Data in Senior Physics Relativistic Theory of Atoms and Molecules III Ontology Learning and Population: Bridging the Gap Between Text and Knowledge The Journal of Chemical Physics Borror and Delong's Introduction to the Study of Insects Basic Linguistic Theory Volume 2 The Tombs of Mesara Gray Hat Hacking: The Ethical Hacker's Handbook, Fifth Edition Reconstructive Microsurgery Texts, Languages [and] Information Technology in Egyptology Proceedings of the First International Workshop on Issues of Sentiment Discovery and Opinion Mining *Witold Pedrycz Steve A. Rackley Bruce Carter Nicolas Grimal Mieczyslaw A. Klopotek Shan K. Wang Geoff Barnbrook John Gordon MacFarlane Piek Vossen Andrzej Bartoszewicz Steven J. Miller Carsten Börnert Andrew Baldwin Manuel García-Carpintero R. M. W. Dixon Nobuyoshi Terashima David R. Hayhurst Rolf G. Beutel Robertas Damaševičius Ben Malisow Franco Montanari Amarnag Subramanya Igor V. Sharakhov J. H. M. Wedderburn Aldo de Moor Sam Halabi Vivek Acharya Allen Philip & Holberg Doug Grahame Dobinson Pekka Pyykkö P. Buitelaar Norman Johnson R. M. W. Dixon Keith Branigan Daniel Regalado Bernard McC. O'Brien Stéphane Polis Erik Cambria*

although the notion is a relatively recent one the notions and principles of granular computing grc have appeared in a different guise in many related fields including granularity in artificial intelligence interval computing cluster analysis quotient space theory and many others recent years have witnessed a renewed and expanding interest in the topic as it begins to play a key role in bioinformatics e commerce machine learning security data mining and wireless mobile computing when it comes to the issues of effectiveness robustness and uncertainty the handbook of granular computing offers a comprehensive reference source for the granular computing community edited by and with contributions from leading experts in the field includes chapters covering the foundations of granular computing interval analysis and fuzzy set theory hybrid methods and models of granular computing and applications and case studies divided into 5 sections preliminaries fundamentals methodology and algorithms development of hybrid models and applications and case studies presents the flow of ideas in a systematic well organized manner starting with the concepts and motivation and proceeding to detailed design that materializes in specific algorithms applications and case studies provides the reader with a self contained reference that includes all pre requisite knowledge augmented with step by step explanations of more advanced concepts the handbook of granular computing represents a significant and valuable contribution to the literature and will appeal to a broad audience including researchers students and practitioners in the fields of computational intelligence pattern recognition fuzzy sets and neural networks system modelling operations research and bioinformatics

as the demand for higher bandwidth has lead to the development of increasingly complex wireless technologies an understanding of both wireless networking technologies and radio frequency rf principles is essential for implementing high performance and cost effective wireless networks wireless networking technology clearly explains the latest wireless technologies covering all scales of wireless networking from personal pan through local area lan to metropolitan man building on a comprehensive review of the underlying technologies this practical guide contains how to

implementation information including a case study that looks at the specific requirements for a voice over wireless lan application this invaluable resource will give engineers and managers all the necessary knowledge to design implement and operate high performance wireless networks explore in detail wireless networking technologies and understand the concepts behind rf propagation gain the knowledge and skills required to install use and troubleshoot wireless networks learn how to address the problems involved in implementing a wireless network including the impact of signal propagation on operating range equipment inter operability problems and many more maximise the efficiency and security of your wireless network

the operational amplifier op amp is the most versatile and widely used type of analog ic used in audio and voltage amplifiers signal conditioners signal converters oscillators and analog computing systems almost every electronic device uses at least one op amp this book is texas instruments complete professional level tutorial and reference to operational amplifier theory and applications among the topics covered are basic op amp physics including reviews of current and voltage division thevenin s theorem and transistor models idealized op amp operation and configuration feedback theory and methods single and dual supply operation understanding op amp parameters minimizing noise in op amp circuits and practical applications such as instrumentation amplifiers signal conditioning oscillators active filters load and level conversions and analog computing there is also extensive coverage of circuit construction techniques including circuit board design grounding input and output isolation using decoupling capacitors and frequency characteristics of passive components the material in this book is applicable to all op amp ics from all manufacturers not just ti unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration this title uses idealized models only when necessary to explain op amp theory the bulk of this book is on real world op amps and their applications considerations such as thermal effects circuit noise circuit buffering selection of appropriate op amps for a given application and unexpected effects in passive components are all discussed in detail published in conjunction

with texas instruments a single volume professional level guide to op amp theory and applications covers circuit board layout techniques for manufacturing op amp circuits

the international conference intelligent information processing and mining iis iipwm 05 organized in gda sk sobieszewo on 13 16th june 2005 was a continuation of a long tradition of conferences on applications of arti cial intelligence ai in information systems is organized by the institute of computer science of polish academy of sciences in cooperation with other scienti c and business institutions the institute itself is deeply engaged in research both in ai and is and many scientists view it as a leading institution both in fundamental and plied research in these areas in poland the originators of this conference series prof m d browski and dr m michalewicz had in 1992 a long term goal of bringing together scientists and industry of di erent braches from poland and abroad to achieve a creative synthesis one can say that their dream has come to reality scientists from ve continents made their subm sions to this conference a brief look at the a liations makes international cooperation visible the research papers have either a motivation in c crete applications or are o springs of some practical requests this volume presents the best papers carefully chosen from a large set of submissions about 45 at this point we would like to express our thanks to the m bers of programme committee for their excellent job also we are thankful to the organizers of the special sessions accompanying this conference jan komorowski adam przepiórkowski zbigniew w

a broad range of disciplines energy conservation and air quality issues construction and design and the manufacture of temperature sensitive products and materials is covered in this comprehensive handbook provide essential up to date hvac data codes standards and guidelines all conveniently located in one volume a definitive reference source on the design selection and operation of a c and refrigeration systems

definition is a basic activity of language of particular importance to linguists because of its use of language to describe itself beyond this inherent significance as a crucial element of

language study definitions also provide a rich potential source of the information needed for natural language processing systems this book describes an investigation of the subset of general language used in definition sentences and the development of a taxonomy of definition types a grammar of definition sentences and parsing software which can extract their functional components the work is based on definition sentences used in one of the dictionaries from the cobuild range and the book includes a brief history of the development of monolingual english dictionaries an assessment of the concepts of sublanguages and local grammars and a full exploration of the results of the analysis and of the present and future applications of the taxonomy grammar and parser

john macfarlane debates how we might make sense of the idea that truth is relative and how we might use this idea to give satisfying accounts of parts of our thought and talk that have resisted traditional methods of analysis although there is a substantial philosophical literature on relativism about truth going back to plato s theaetetus this literature both pro and con has tended to focus on refutations of the doctrine or refutations of these refutations at the expense of saying clearly what the doctrine is in contrast assessment sensitivity begins with a clear account of what it is to be a relativist about truth and uses this view to give satisfying accounts of what we mean when we talk about what is tasty what we know what will happen what might be the case and what we ought to do the book seeks to provide a richer framework for the description of linguistic practices than standard truth conditional semantics affords one that allows not just standard contextual sensitivity sensitivity to features of the context in which an expression is used but assessment sensitivity sensitivity to features of the context from which a use of an expression is assessed the context and content series is a forum for outstanding original research at the intersection of philosophy linguistics and cognitive science the general editor is francois recanati institut jean nicod paris

describes the main objective of eurowordnet which is the building of a multilingual database with lexical semantic networks or wordnets for several european languages the six contributions look

at the linguistic design of the eurowordnet database the top down strategy for building eurowordnet vocabulary coverage base concepts and top ontology applying eurowordnet to cross language text retrieval and cross linguistic alignment of wordnets with an inter lingual index intended for scholars in the field and researchers in semantics and knowledge engineering reprinted from computers and the humanities v 32 nos 2 3 1998 annotation copyrighted by book news inc portland or

the main objective of this monograph is to present a broad range of well worked out recent theoretical and application studies in the field of robust control system analysis and design the contributions presented here include but are not limited to robust pid h infinity sliding mode fault tolerant fuzzy and qft based control systems they advance the current progress in the field and motivate and encourage new ideas and solutions in the robust control area

benford s law states that the leading digits of many data sets are not uniformly distributed from one through nine but rather exhibit a profound bias this bias is evident in everything from electricity bills and street addresses to stock prices population numbers mortality rates and the lengths of rivers here steven miller brings together many of the world s leading experts on benford s law to demonstrate the many useful techniques that arise from the law show how truly multidisciplinary it is and encourage collaboration beginning with the general theory the contributors explain the prevalence of the bias highlighting explanations for when systems should and should not follow benford s law and how quickly such behavior sets in they go on to discuss important applications in disciplines ranging from accounting and economics to psychology and the natural sciences the contributors describe how benford s law has been successfully used to expose fraud in elections medical tests tax filings and financial reports additionally numerous problems background materials and technical details are available online to help instructors create courses around the book emphasizing common challenges and techniques across the disciplines this accessible book shows how benford s law can serve as a productive meeting ground for researchers and

practitioners in diverse fields

in order to remain competitive in today s world companies need to be able to integrate internally and externally by connecting sensors customers and partners with the information in their systems of record in short they need to integrate with everything this ibm redbooks publication describes how ibm application integration suite and ibm messaging portfolio can be used to satisfy the needs of core hybrid integration use cases accelerating companies in their digital transformation journey all concepts are explained within the context of these use cases joining the api economy improving productivity refactoring for innovation the target audience for this book is cloud and integration architects and specialists who are implementing hybrid integration solutions

for over thirty years the oxford handbook of clinical specialties has guided students and junior doctors through their clinical placements renowned for providing all the information needed for both practice and revision in a deceptively small package now in its eleventh edition the handbook has been revitalized by an expanded team of specialty experts and junior doctors to guide readers through each of the specialties encountered through medical school and foundation programme rotations while remaining true to the humanity and patient focus of the original edition updated with the latest advice and clinical guidelines packed full of high quality illustrations boxes tables and classifications and with a brand new chapter on how to survive your junior doctor years and beyond this handbook is ideal for both study and use at direct point of care each chapter is clear and concise and filled with medical gems with features including ribbons to mark your most used pages and mnemonics to help you memorize and retain key facts with reassuring and friendly advice throughout this is the ultimate guide and revision tool for every medical student and junior doctor for each clinical specialty placement this well loved handbook remains the perfect companion to the oxford handbook of clinical medicine together encompassing the entire spectrum of clinical medicine and unmatched by any competitor in their class helping you become the doctor you want to be

the truth of an utterance depends on various factors usually these factors are assumed to be the meaning of the sentence uttered the context in which the utterance was made and the way things are in the world recently however a number of cases have been discussed where there seems to be reason to think that the truth of an utterance is not yet fully determined by these three factors and that truth must therefore depend on a further factor the most prominent examples include utterances about values utterances attributing knowledge utterances that state that something is probable or epistemically possible and utterances about the contingent future in these cases some have argued the standard picture needs to be modified to admit extra truth determining factors and there is further controversy about the exact role of any such extra factors with contributions from some of the key figures in the contemporary debate on relativism this book is about a topic that is the focus of much traditional and current interest whether truth is relative to standards of taste values or subjective informational states it is an issue in the philosophy of language but one with important connections to other areas of philosophy such as meta ethics metaphysics and epistemology

r m w dixon provides a comprehensive guide to the nature of human languages and their description and analysis the 3 volumes comprise a one stop introduction for undergraduate and graduate students of linguistics truly a guide for the perplexed basic linguistic theory is destined to be a classic nick enfield

track 1 innovative applications in the public sector the integration of multimedia based applications and the information superhighway fundamentally concerns the creation of a communication technology to support the ac tivities of people communication is a profoundly social activity involving interactions among groups or individuals common standards of exchange and national infrastruc tures to support telecommunications activities the contributions of the invited speakers and others in this track begin to explore the social dimension of communication within the context of integrated information systems for the public sector interactions among businesses and households are described by ralf strauss through

the development within a real community of a wired city with information and electronic services provided by the latest telecommunications technologies a more specific type of interaction between teacher and student forms the basis of education john tiffin demonstrates how virtual classrooms can be used to augment the educational process carl loeffler presents yet another perspective on interaction through the integration of a life and agent technologies to investigate the dynamics of complex behaviors within networked simulation environments common standards for communication in the form of electronic documents or cscw computer supported cooperative work according to roland traunmiiller provide en abling technologies for a paradigm shift in the management of organizations as pointed out by william olle the impact of standardization work on the future of information technology depends critically upon the interoperability of software systems

by conference chairman n1 it is my pleasure to introduce this volume of proceedings for the 33 matador conference the proceedings include 83 refereed papers submitted from 19 countries on 4 continents 00 the spread of papers in this volume reflects four developments since the 32 matador conference in 1997 i the power of information technology to integrate the management and control of manufacturing systems ii international manufacturing enterprises iii the use of computers to integrate different aspects of manufacturing technology and iv new manufacturing technologies new developments in the manufacturing systems area are globalisation and the use of the to achieve virtual enterprises in manufacturing technology the potential of the following processes is being realised rapid proto typing laser processing high speed machining and high speed machine tool design and at the same time in the area of controls and automation the flexibility and integration ability of open architecture computer controllers are creating a wide range of opportunities for novel solutions up to date research results in these and other areas are presented in this volume the proceedings reflect the truly international nature of this conference and the way in which original research results are both collected and disseminated the volume does not however record the rich debate and extensive

scientific discussion which took place during the conference i trust that you will find this volume to be a permanent record of some of the research carried out in the last two years and

in the last decades a remarkable renaissance has materialized in insect morphology mainly triggered by the development of new cutting edge technologies this is an exciting time for biological synthesis where the mysteries and data derived from genomes can be combined with centuries of data from morphology and development and now more than ever detailed knowledge of morphology is essential to understanding the evolution of all groups of organisms in this age of phylogenomics researchers rely on morphological data to support molecular findings test complex evolutionary scenarios and for placing fossil taxa this textbook provides an in depth treatment of the structures and the phylogeny of the megadiverse hexapoda the first part presents an up to date overview of general insect morphology with detailed drawings scanning electron micrographs and 3 d reconstructions also included is a chapter covering innovative morphological techniques e g μ computer tomography 3 d modeling brief treatments of insect development and phylogenetic methods and a comprehensive morphological glossary the second part is of a modern synthesis of insect systematics that includes taxon specific morphological information for all orders the work is an invaluable reference for students and researchers working in all facets of biology and is a must for evolutionary biologists a detailed understanding of morphology is essential in unraveling phylogenetic relationships and developing complex evolutionary scenarios increasingly researchers in phylogenomics are re turning to morphological data to support their findings while the development of new cutting edge technologies has further increased interest in this growing field this definitive handbook provides an in depth treatment of insect morphology the first part presents an up to date overview of insect morphology with detailed drawings brilliant scanning electron micrographs and 3 d reconstructions as interactive pdfs this is complemented by a chapter on innovative morphological techniques e g μ computer tomography 3 d modeling and a comprehensive morphological glossary the second part treats the state of the art in insect systematics and includes taxon specific

morphological information for all orders systematics are treated formally with for example the arguments for relationships apomorphies always listed explicitly the work is a useful reference for students and researchers working in different fields of biology and a must for those dealing with insects from an evolutionary perspective

this book constitutes the refereed proceedings of the 24th international conference on information and software technologies icist 2018 held in vilnius lithuania in october 2018 the 48 papers presented were carefully reviewed and selected from 124 submissions the papers are organized in topical sections on information systems business intelligence for information and software systems software engineering and information technology applications

the only official ccsp practice test product endorsed by isc ² with over 1 000 practice questions this book gives you the opportunity to test your level of understanding and gauge your readiness for the certified cloud security professional ccsp exam long before the big day these questions cover 100 of the ccsp exam domains and include answers with full explanations to help you understand the reasoning and approach for each logical organization by domain allows you to practice only the areas you need to bring you up to par without wasting precious time on topics you ve already mastered as the only official practice test product for the ccsp exam endorsed by isc ² this essential resource is your best bet for gaining a thorough understanding of the topic it also illustrates the relative importance of each domain helping you plan your remaining study time so you can go into the exam fully confident in your knowledge when you re ready two practice exams allow you to simulate the exam day experience and apply your own test taking strategies with domains given in proportion to the real thing the online learning environment and practice exams are the perfect way to prepare and make your progress easy to track

while labeled data is expensive to prepare ever increasing amounts of unlabeled data is becoming widely available in order to adapt

to this phenomenon several semi supervised learning ssl algorithms which learn from labeled as well as unlabeled data have been developed in a separate line of work researchers have started to realize that graphs provide a natural way to represent data in a variety of domains graph based ssl algorithms which bring together these two lines of work have been shown to outperform the state of the art in many applications in speech processing computer vision natural language processing and other areas of artificial intelligence recognizing this promising and emerging area of research this synthesis lecture focuses on graph based ssl algorithms e g label propagation methods our hope is that after reading this book the reader will walk away with the following 1 an in depth knowledge of the current state of the art in graph based ssl algorithms and the ability to implement them 2 the ability to decide on the suitability of graph based ssl methods for a problem and 3 familiarity with different applications where graph based ssl methods have been successfully applied table of contents introduction graph construction learning and inference scalability applications future work bibliography authors biographies index

arthropods are important to worldwide agriculture food safety human health and energy production besides their practical significance various species represent excellent model systems for biological investigations of evolution development physiology reproduction and social interaction for these reasons arthropod genomics is receiving increasing attention from researchers around the globe protocols for cytogenetic mapping of arthropod genomes is a collection of up to date detailed protocols for physical chromosome mapping and their applications for studying genome organization and evolution in insects and ticks this book brings together the expertise of cytogeneticists working on diverse groups of arthropods each chapter demonstrates approaches to tissue dissection chromosome preparation fluorescence in situ hybridization and imaging the book is a timely and complementary effort to the i5k initiative which will obtain whole genome sequences for 5 000 insect and related arthropod species this comprehensive resource provides cytogeneticists with the necessary background and protocols to understand and develop chromosome

based genome assemblies from such whole genome sequence data

it is the organization and presentation of the material however which make the peculiar appeal of the book this is no mere compendium of results the subject has been completely reworked and the proofs recast with the skill and elegance which come only from years of devotion bulletin of the american mathematical society the very clear and simple presentation gives the reader easy access to the more difficult parts of the theory jahrbuch uber die fortschritte der mathematik in 1937 the theory of matrices was seventy five years old however many results had only recently evolved from special cases to true general theorems with the publication of his colloquium lectures wedderburn provided one of the first great syntheses of the subject much of the material in the early chapters is now familiar from textbooks on linear algebra wedderburn discusses topics such as vectors bases adjoints eigenvalues and the characteristic polynomials up to and including the properties of hermitian and orthogonal matrices later chapters bring in special results on commuting families of matrices functions of matrices including elements of the differential and integral calculus sometimes known as matrix analysis and transformations of bilinear forms the final chapter treats associative algebras culminating with the well known wedderburn artin theorem that simple algebras are necessarily isomorphic to matrix algebras wedderburn ends with an appendix of historical notes on the development of the theory of matrices and a bibliography that emphasizes the history of the subject

the book constitutes the refereed proceedings of the 11th international conference on conceptual structures iccs 2003 held in dresden germany in july 2003 the 23 revised full papers presented together with 5 invited papers were carefully reviewed and selected for presentation the papers are organized in topical sections on the many facets of conceptual structures logical and linguistic aspects conceptual representation of time and space deepening the formal theory and applications of conceptual structures

improve manageability flexibility scalability and control with

hyperconverged infrastructure hyperconverged infrastructure hci combines storage compute and networking in one unified system managed locally or from the cloud with hci you can leverage the cloud s simplicity flexibility and scalability without losing control or compromising your ability to scale in hyperconverged infrastructure data centers best selling author sam halabi demystifies hci technology outlines its use cases and compares solutions from a vendor neutral perspective he guides you through evaluation planning implementation and management helping you decide where hci makes sense and how to migrate legacy data centers without disrupting production systems the author brings together all the hci knowledge technical professionals and it managers need whether their background is in storage compute virtualization switching routing automation or public cloud platforms he explores leading solutions including the cisco hyperflex platform vmware vsan nutanix enterprise cloud cisco application centric infrastructure aci vmware s nsx the open source openstack and open vswitch ovs open virtual network ovn and cisco cloudcenter for multicloud management as you explore discussions of automation policy management and other key hci capabilities you ll discover powerful new opportunities to improve control security agility and performance understand and overcome key limits of traditional data center designs discover improvements made possible by advances in compute bus interconnect virtualization and software defined storage simplify rollouts management and integration with converged infrastructure ci based on the cisco unified computing system ucs explore hci functionality advanced capabilities and benefits evaluate key hci applications including devops virtual desktops robo edge computing tier 1 enterprise applications backup and disaster recovery simplify application deployment and policy setting by implementing a new model for provisioning deployment and management plan integrate deploy provision manage and optimize the cisco hyperflex hyperconverged infrastructure platform assess alternatives such as vmware vsan nutanix open source openstack and ovs ovn and compare architectural differences with hyperflex compare cisco aci application centric infrastructure and vmware nsx approaches to network automation policies and security this book is part of the networking technology series from cisco press which offers

networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers

get up and running with oracle s premium cloud blockchain services and build distributed blockchain apps with ease key featuresdiscover hyperledger fabric and its components features qualifiers and architectureget familiar with the oracle blockchain platform and its unique featuresbuild hyperledger fabric based business networks with oracle s premium blockchain cloud servicebook description hyperledger fabric empowers enterprises to scale out in an unprecedented way allowing organizations to build and manage blockchain business networks this quick start guide systematically takes you through distributed ledger technology blockchain and hyperledger fabric while also helping you understand the significance of blockchain as a service baas the book starts by explaining the blockchain and hyperledger fabric architectures you ll then get to grips with the comprehensive five step design strategy explore engage experiment experience and influence next you ll cover permissioned distributed autonomous organizations pdaos along with the equation to quantify a blockchain solution for a given use case as you progress you ll learn how to model your blockchain business network by defining its assets participants transactions and permissions with the help of examples in the concluding chapters you ll build on your knowledge as you explore oracle blockchain platform obp in depth and learn how to translate network topology on obp by the end of this book you will be well versed with obp and have developed the skills required for infrastructure setup access control adding chaincode to a business network and exposing chaincode to a dapp using rest configuration what you will learnmodel your blockchain based business network by defining its components transactions integrations and infrastructure through use casesdevelop deploy and test chaincode using shim and rest and integrate it with client apps using sdk rest and eventsexplore accounting blockchain hyperledger fabric and its components features qualifiers architecture and structureunderstand the importance of blockchain as a service baas experiment hyperledger fabric and delve into the underlying technologyset up a consortium network nodes channels

and privacy and learn how to translate network topology on obpwho this book is for if you are a blockchain developer blockchain architect or just a cloud developer looking to get hands on with oracle blockchain cloud service then this book is for you some familiarity with the basic concepts of blockchain will be helpful to get the most out of this book

relativistic effects are of major importance for understanding the properties of heavier atoms and molecules volumes i iii of relativistic theory of atoms and molecules constitute the only available bibliography on related calculations in volume iii 3792 new references covering 1993 1999 are added to the database the material is characterized by an analysis of the respective papers the volume gives the user a comprehensive bibliography on relativistic atomic and molecular calculations including studies on the dirac equation and related solid state work

the promise of the semantic is that future web pages will be annotated not only with bright colors and fancy fonts as they are now but with annotation extracted from large domain ontologies that specify to a computer in a way that it can exploit what information is contained on the given web page the presence of this information will allow software agents to examine pages and to make decisions about content as humans are able to do now the classic method of building an ontology is to gather a committee of experts in the domain to be modeled by the ontology and to have this committee agree on which concepts cover the domain on which terms describe which concepts on what relations exist between each concept and what the possible attributes of each concept are all ontology learning systems begin with an ontology structure which may just be an empty logical structure and a collection of texts in the domain to be modeled an ontology learning system can be seen as an interplay between three things an existing ontology a collection of texts and lexical syntactic patterns the semantic will only be a reality if we can create structured unambiguous ontologies that model domain knowledge that computers can handle the creation of vast arrays of such ontologies to be used to mark up web pages for the semantic can only be accomplished by computer tools that can extract and build large parts of these ontologies

automatically this book provides the state of art of many automatic extraction and modeling techniques for ontology building the maturation of these techniques will lead to the creation of the semantic

understand the insect world with borror and delong s introduction to the study of insects combining current insect identification insect biology and insect evolution this biology text provides you with a comprehensive introduction to the study of insects numerous figures bullets easily understood diagrams and numbered lists throughout the text help you grasp the material

r m w dixon provides a comprehensive guide to the nature of human languages and their description and analysis the books are a one stop text for undergraduate and graduate students the outcome of a lifetime s immersion in every aspect of language

tholos tombs for centuries the minoans used tholos tombs and sacred caves along with pithoi and larnakes for burial of their dead many tholos tombs have been found in crete dating back to prepalatial times they were usually round in shape with one short entrance although tholos tombs rectangular in shape were not unusual like the ones found in palekastro and some were cut into hill sides while most were free standing structures what has survived to date consists of the foundations or the lower part of the walls so it is difficult to gauge their height or their shape at the top it is believed however that many had a flat wood framed roof the largest tholos tomb is found in platanos and measures about 13 meters in diameter the tholos tombs were used extensively during the prepalatial and protopalatial periods 2600 1700 bc and many were continuously used until historic times http ancient greece org architecture minoan archi html

cutting edge techniques for finding and fixing critical security flaws fortify your network and avert digital catastrophe with proven strategies from a team of security experts completely updated and featuring 13 new chapters gray hat hacking the ethical hacker s handbook fifth edition explains the enemy s current weapons skills and tactics and offers field tested remedies case studies and ready to try testing labs find out how hackers gain

access overtake network devices script and inject malicious code and plunder applications and browsers android based exploits reverse engineering techniques and cyber law are thoroughly covered in this state of the art resource and the new topic of exploiting the internet of things is introduced in this edition build and launch spoofing exploits with ettercap induce error conditions and crash software using fuzzers use advanced reverse engineering to exploit windows and linux software bypass windows access control and memory protection schemes exploit web applications with padding oracle attacks learn the use after free technique used in recent zero days hijack web browsers with advanced xss attacks understand ransomware and how it takes control of your desktop dissect android malware with jeb and dad decompilers find one day vulnerabilities with binary diffing exploit wireless systems with software defined radios sdr exploit internet of things devices dissect and exploit embedded devices understand bug bounty programs deploy next generation honeypots dissect atm malware and analyze common atm attacks learn the business side of ethical hacking

this volume represents the outcome of the meeting of the computer working group of the international association of egyptologists informatique Égyptologie held in liège in 2010 6 8 july under the auspices of the ramses project the papers are based on presentations given during this meeting and have been selected in order to cover three main thematic areas of research at the intersection of egyptology and information technology 1 the construction management and use of ancient egyptian annotated corpora 2 the problems linked to hieroglyphic encoding 3 the development of databases in the fields of art history philology and prosopography the contributions offer an up to date state of the art discuss the most promising avenues for future research developments and implementation and suggest solutions to longstanding issues in the field two general trends characterize the projects laid out here the desire for online accessibility made available to the widest possible audience and the search for standardization and interoperability

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The Amazing Hydroxide Ion: A Tiny Particle with a Big Impact

Imagine a world without soap, without strong cleaners, and without the smooth, creamy texture of many foods. Sounds unimaginable, right? This seemingly ordinary world depends on the presence of a remarkably important tiny particle: the hydroxide ion (OH^-). Far from being just a chemical term, the hydroxide ion plays a crucial role in countless everyday processes, from the way we clean our homes to the intricate chemistry of life itself. This article will delve into the fascinating world of the hydroxide ion, exploring its properties, behavior, and significant impact on our lives.

What is a Hydroxide Ion?

At its core, the hydroxide ion is a negatively charged molecule composed of one oxygen atom and one hydrogen atom. This isn't just any oxygen-hydrogen combination; the special bond between them gives the hydroxide ion its unique properties. The oxygen atom holds a significantly greater share of the electrons in the bond, giving it a partial negative charge, while the hydrogen atom carries a partial positive charge. This uneven distribution of charge is what makes the hydroxide ion so reactive and influential in various chemical reactions. Think of it as a tiny, negatively charged magnet, constantly seeking positive interactions. It's important to remember that while we represent it as OH^-, it doesn't exist as a lone oxygen and hydrogen atom floating around — it interacts with its environment.

Properties and Behavior of the

Hydroxide Ion

The hydroxide ion's negative charge is fundamental to its behavior. It is a strong base, meaning it readily accepts protons (H^+) from other molecules. This proton acceptance is the cornerstone of many chemical reactions where the hydroxide ion participates. The strength of its basicity dictates its reactivity — the higher the concentration of hydroxide ions in a solution, the more basic (alkaline) the solution becomes. This alkalinity is measured using the pH scale, with higher pH values indicating greater basicity. Pure water has a neutral pH of 7, while solutions containing hydroxide ions have a pH greater than 7. The hydroxide ion's reactivity is not limited to proton acceptance. It participates in numerous other chemical reactions, including hydrolysis (the breakdown of molecules by water, often facilitated by hydroxide ions) and various organic reactions. Its ability to act as a nucleophile (an electron-rich species that attacks electron-deficient species) further contributes to its versatility in chemical synthesis.

Real-Life Applications: From Cleaning to Chemistry

The hydroxide ion's importance extends far beyond the laboratory. Its applications in everyday life are numerous and vital: Cleaning Products: Many household cleaners contain strong bases, often in the form of hydroxide ions. The high alkalinity of these solutions effectively breaks down grease, grime, and other organic substances, making them powerful cleaning agents. Examples include drain cleaners (often containing sodium hydroxide, $NaOH$) and some oven cleaners. Food Production: Hydroxide ions play a role in the processing of various foods. For instance, they are used to adjust the pH in certain food products, enhancing their texture, stability, and preservation. Chemical Industry: The hydroxide ion is a crucial reactant in numerous industrial chemical processes. It's used in the production of various chemicals, including soaps, detergents, and many pharmaceuticals. Environmental Applications:

Hydroxide ions are important in wastewater treatment, helping to neutralize acidic waste streams. They can also play a role in remediating contaminated soil by helping to neutralize acidic pollutants. Biology: While less directly involved than in industrial processes, hydroxide ions contribute to the regulation of pH within biological systems. Maintaining the correct pH balance is critical for the proper functioning of cells and enzymes.

The Hydroxide Ion and pH: A Closer Look

The relationship between the hydroxide ion and pH is intrinsically linked. As mentioned, pH is a measure of the acidity or basicity of a solution. A lower pH indicates higher acidity (higher concentration of H^+ ions), while a higher pH indicates higher basicity (higher concentration of OH^- ions). The pH scale is logarithmic, meaning each whole number change represents a tenfold difference in the concentration of H^+ or OH^- ions. Understanding this relationship is vital for managing chemical reactions and ensuring the safety and effectiveness of various processes.

Safety Considerations: Handling Hydroxide Ions

While hydroxide ions are essential for numerous applications, it's crucial to handle them safely. Concentrated solutions of hydroxide are corrosive and can cause severe burns to skin and eyes. Appropriate protective equipment, including gloves, eye protection, and lab coats, should always be used when working with hydroxide-containing substances. Proper ventilation is also essential to prevent inhalation of potentially harmful fumes.

Conclusion

The hydroxide ion, although a seemingly simple chemical species, plays a multifaceted and crucial role in our world. From the cleaning power of household products to the intricate chemistry of biological processes and industrial manufacturing, its impact is undeniable. Understanding its properties, behavior, and applications is not just a matter of academic interest; it's essential for appreciating the fundamental role this tiny ion plays in shaping our daily lives and technological advancements.

FAQs

1. Is the hydroxide ion always harmful? No, the hydroxide ion's harmfulness depends heavily on its concentration. Low concentrations are harmless, even essential for biological processes. However, high concentrations are corrosive and dangerous. 2. How do hydroxide ions react with acids? Hydroxide ions neutralize acids through a neutralization reaction, producing water and a salt. For example, $NaOH + HCl \rightarrow NaCl + H_2O$. 3. Can hydroxide ions exist in the gas phase? Yes, although less commonly encountered than in aqueous solutions, hydroxide ions can exist in the gas phase, often as part of larger molecules or ions. 4. What is the difference between hydroxide and hydroxyl? "Hydroxyl" refers to the -OH group as a functional group within a larger molecule, while "hydroxide" refers to the OH^- ion as an independent entity. 5. How can I safely dispose of hydroxide-containing solutions? Never pour hydroxide solutions down the drain. Consult local regulations and disposal guidelines for proper and safe disposal, often involving neutralization before disposal.

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