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Information Retrieval Shipping and Globalization in the Post–War Era Kinesiology Pro Android 2 Australian Guide to Legal Citation Web Mining Planning and Positioning in MRI – E–Book The Circle A Contemporary Guide to Cultural Mapping Low–Speed Wind Tunnel Testing World Heritage Angkor and Beyond Prevention and Rehabilitation of Hamstring Injuries Ontology Matching Strength and Conditioning Transanal Minimally Invasive Surgery (TAMIS) and Transanal Total Mesorectal Excision (taTME) Administering Data Centers Convergence of Probability Measures Ubiquitous Computing Cloud Computing for Enterprise Architectures The Sharing Economy English – One Tongue, Many Voices Biomechanics in Ergonomics Crop ecology, cultivation and uses of cactus pear Handbook of Sports Medicine and Science, The Paralympic Athlete Automatic Speech and Speaker Recognition Mental Health Challenges in Elite Sport: Balancing Risk with Reward Computer Methods in Biomechanics and Biomedical Engineering Issues and trends in education for sustainable development A Visual Dictionary of Architecture Group Policy DYNAMICS OF FLIGHT IBM Tivoli Storage Management Concepts Movement System Impairment Syndromes of the Extremities, Cervical and Thoracic Spines Handbook of Air Conditioning and Refrigeration The Patellofemoral Joint Australian Property Law Fundamentals of Spectrum Analysis Single Molecule Detection in Solution Multivariable Feedback Control: Analysis and Design Consent Stefan Büttcher Niels P. Petersson Carol A. Oatis Sayed Hashimi Melbourne University Law Review Association Inc Anthony Scime Anne Bright Dave Eggers Ian Cook Jewel B. Barlow Brigitta Hauser–Schäublin Kristian Thorborg Jérôme Euzenat Gavin L. Moir Sam Atallah Kailash Jayaswal Patrick Billingsley Stefan Poslad Zaigham Mahmood Arun Sundararajan Jan Svartvik Shrawan Kumar Food and Agriculture Organization of the United Nations Yves Vanlandewijck Joseph Keshet Tadhg Eoghan MacIntyre J. Middleton Leicht, Alexander Francis D. K. Ching Jeremy Moskowitz BERNARD. ETKIN Charlotte Brooks Shirley Sahrman Shan K. Wang James M. Fox Samantha Hepburn Christoph Rauscher Christoph Zander Sigurd Skogestad

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Probability Measures Ubiquitous Computing Cloud Computing for Enterprise Architectures The Sharing Economy English – One Tongue, Many Voices Biomechanics in Ergonomics Crop ecology, cultivation and uses of cactus pear Handbook of Sports Medicine and Science, The Paralympic Athlete Automatic Speech and Speaker Recognition Mental Health Challenges in Elite Sport: Balancing Risk with Reward Computer Methods in Biomechanics and Biomedical Engineering Issues and trends in education for sustainable development A Visual Dictionary of Architecture Group Policy DYNAMICS OF FLIGHT Ibm Tivoli Storage Management Concepts Movement System Impairment Syndromes of the Extremities, Cervical and Thoracic Spines Handbook of Air Conditioning and Refrigeration The Patellofemoral Joint Australian Property Law Fundamentals of Spectrum Analysis Single Molecule Detection in Solution Multivariable Feedback Control: Analysis and Design Consent *Stefan Büttcher Niels P. Petersson Carol A. Oatis Sayed Hashimi Melbourne University Law Review Association Inc Anthony Scime Anne Bright Dave Eggers Ian Cook Jewel B. Barlow Brigitta Hauser–Schäublin Kristian Thorborg Jérôme Euzenat Gavin L. Moir Sam Atallah Kailash Jayaswal Patrick Billingsley Stefan Poslad Zaigham Mahmood Arun Sundararajan Jan Svartvik Shrawan Kumar Food and Agriculture Organization of the United Nations Yves Vanlandewijck Joseph Keshet Tadhg Eoghan MacIntyre J. Middleton Leicht, Alexander Francis D. K. Ching Jeremy Moskowitz BERNARD. ETKIN Charlotte Brooks Shirley Sahrman Shan K. Wang James M. Fox Samantha Hepburn Christoph Rauscher Christoph Zander Sigurd Skogestad*

an introduction to information retrieval the foundation for modern search engines that emphasizes implementation and experimentation

this open access book belongs to the maritime business and economic history strand of the palgrave studies in maritime economics book series this volume highlights the contribution of the shipping industry to the transformations in business and society of the postwar era shipping was both an example and an engine of globalization and structural change in turn the industry experienced and pioneered mirrored and enabled key developments that led to the present day globalized economy contributions address issues such as the macro level shift of shipping's centre of gravity from europe to asia the political and legal frameworks within which it developed the strategies and performance of both successful and unsuccessful firms and the links between the shipping industry and the wider economy and society without shipping and its ability to forge connections and networks of a global reach the modern world would look very different by bringing together scholars from various disciplinary and national backgrounds this book advances our understanding of the linkages that bind economies and societies together

the second edition of kinesiology the mechanics and pathomechanics of human movement relates the most current understanding of anatomy and mechanics with clinical practice concerns featuring seven chapters devoted to biomechanics straightforward writing and over 900 beautiful illustrations the text provides you with detailed coverage of the structure function and kinesiology of each body region you will gain an in depth understanding of the relationship between the quality of movement and overall human health special features include new dvd containing about 150 videos provides dynamic examples of clinical demonstrations principle illustrations and lab activities this powerful resource explores patient function dysfunction and injury for greater comprehension clinical relevance boxes reinforce the relationship of biomechanical principles to patient care through real life case studies muscle attachment boxes provide easily accessed anatomical information and tips on muscle palpation examining the forces boxes highlight the advanced mathematical concepts used to determine forces on joint structure evidence based presentations deliver the most current literature and essential classic studies for your understanding of musculoskeletal structure and function whether you are a student or practitioner in the field of physical therapy occupational therapy or exercise science this comprehensive book serves as an excellent resource for best practice techniques

pro android 2 shows how to build real world and fun mobile applications using google s latest android software development kit this new edition is updated for android 2 covering everything from the fundamentals of building applications for embedded devices to advanced concepts such as custom 3d components opengl and touchscreens including gestures while other android development guides simply discuss topics pro android 2 offers the combination of expert insight and real sample applications that work discover the design and architecture of the android sdk through practical examples and how to build mobile applications using the android sdk explore and use the android apis including those for media and wi fi learn about android 2 s integrated local and web search handwriting gesture ui google translate and text to speech features pro android 2 dives deep providing you with all the knowledge and techniques you need to build mobile applications ranging from games to google apps including add ons to google docs you ll be able to extend and run the new google chrome apis on the g1 the g2 and other next generation google phones and android enabled devices

mining is moving the world wide toward a more useful environment in which users can quickly and easily find the information they need mining uses document content hyperlink structure and usage statistics to assist users in meeting their needed information this book provides a record of current research and practical applications in searching it includes techniques that will improve the utilization of the by the design of sites as well as the design and application of

search agents this book presents research and related applications in a manner that encourages additional work toward improving the reduction of information overflow which is so common today in search results

positioning in mri is a clinical manual about the creation of magnetic resonance images this manual focuses upon patient positioning and image planning the manual is organised by body region and provides valuable insight into patient pathology on mri considerations when positioning both the patient and coil imaging planes anatomical image alignment this manual is a comprehensive highly visual reference to the planning and positioning of patients and coils in mr imaging high quality imaging specific to patient pathology is encouraged through the focus on considerations specific to coil and patient placement and imaging plane selection over 200 mr images formulaic internal design assist use as clinical manual to mri planning evidence base provided where appropriate cranial neurology image selection assist learning principles that underpin good positioning and anatomical coverage explores positioning of patient and coils specific to individual treatment requirements evolve website image collection over 200 mr images and additional case studies

international bestseller a bestselling dystopian novel that tackles surveillance privacy and the frightening intrusions of technology in our lives a compulsively readable parable for the 21st century vanity fair when mae holland is hired to work for the circle the world s most powerful internet company she feels she s been given the opportunity of a lifetime the circle run out of a sprawling california campus links users personal emails social media banking and purchasing with their universal operating system resulting in one online identity and a new age of civility and transparency as mae tours the open plan office spaces the towering glass dining facilities the cozy dorms for those who spend nights at work she is thrilled with the company s modernity and activity there are parties that last through the night there are famous musicians playing on the lawn there are athletic activities and clubs and brunches and even an aquarium of rare fish retrieved from the marianas trench by the ceo mae can t believe her luck her great fortune to work for the most influential company in the world even as life beyond the campus grows distant even as a strange encounter with a colleague leaves her shaken even as her role at the circle becomes increasingly public what begins as the captivating story of one woman s ambition and idealism soon becomes a heart racing novel of suspense raising questions about memory history privacy democracy and the limits of human knowledge

a brand new edition of the classic guide on low speed wind tunnel testing while great advances in theoretical and computational methods have been made in recent years low speed

wind tunnel testing remains essential for obtaining the full range of data needed to guide detailed design decisions for many practical engineering problems this long awaited third edition of william h rae jr s landmark reference brings together essential information on all aspects of low speed wind tunnel design analysis testing and instrumentation in one easy to use resource written by authors who are among the most respected wind tunnel engineers in the world this edition has been updated to address current topics and applications and includes coverage of digital electronics new instrumentation video and photographic methods pressure sensitive paint and liquid crystal based measurement methods the book is organized for quick access to topics of interest and examines basic test techniques and objectives of modeling and testing aircraft designs in low speed wind tunnels as well as applications to fluid motion analysis automobiles marine vessels buildings bridges and other structures subject to wind loading supplemented with real world examples throughout low speed wind tunnel testing third edition is an indispensable resource for aerospace engineering students and professionals engineers and researchers in the automotive industries wind tunnel designers architects and others who need to get the most from low speed wind tunnel technology and experiments in their work

angkor the temple and palace complex of the ancient khmer capital in cambodia is one of the world s most famous monuments hundreds of thousands of tourists from all over the globe visit angkor park one of the finest unesco world heritage sites every year since its unesco listing in 1992 the angkor region has experienced an overwhelming mushrooming of hotels and restaurants the infrastructure has been hardly able to cope with the rapid growth of mass tourism and its needs this applies to the access and use of monument sites as well the authors of this book critically describe and analyse the heritage nomination processes in cambodia especially in the case of angkor and the temple of preah vihear on the cambodian thai border they examine the implications the unesco listings have had with regard to the management of angkor park and its inhabitants on the one hand and to the cambodian thai relationships on the other furthermore they address issues of development through tourism that unesco has recognised as a welcome side effect of heritage listings they raise the question whether development through tourism deepens already existing inequalities rather than contributing to the promotion of the poor publisher s description

this innovative book presents the latest insights into hamstring strain injuries hsi one of the most common problems in elite and recreational sport with a unique focus on prevention and rehabilitation the research within this area has evolved rapidly over the past 10 years and this text offers a comprehensive overview of the recent and most relevant advances it fills a gap in

the literature since other books focus on muscle injuries in general and their surgical treatment structured around the current evidence in the field it includes sections on functional anatomy and biomechanics basic muscle physiology in relation to injury and repair assessment of risk factors and factors associated with hamstring strains it also discusses considerations in relation to acute and chronic injuries and hamstring injury prevention including pre season and in season interventions as well as management strategies and rehabilitation protocols the final chapter is devoted to additional interventions when conservative rehabilitation and injury prevention fail written by renowned experts in the field this book will be of great interest to sports physiotherapists sports physicians physical trainers and coaches

ontologies are viewed as the silver bullet for many applications but in open or evolving systems different parties can adopt different ontologies this increases heterogeneity problems rather than reducing heterogeneity this book proposes ontology matching as a solution to the problem of semantic heterogeneity offering researchers and practitioners a uniform framework of reference to currently available work the techniques presented apply to database schema matching catalog integration xml schema matching and more

written for both the undergraduate graduate level student as well as practitioners in the field this text incorporates all programming aspects of strength and conditioning including training methods to develop muscular strength and power flexibility and the development of effective warm up regimens performance analysis techniques in sport are introduced while the constraints led approach to motor skills acquisition is presented as a framework that can guide the development of practices for the strength and conditioning practitioner the biomechanical and motor skill acquisition concepts introduced in the text are then applied to fundamental movements including jumping landing and sprint running key features provides a solid introduction to biomechanics pertinent to the study of human movements discusses the performance analysis techniques in sport that can be used by the strength and conditioning practitioner to determine the physiological mechanical and technical demands of specific sports and also the assessment of the techniques used in the execution of sport specific skills includes a critical review of the different approaches to motor skill acquisition incorporates clear learning objectives and worked examples in each chapter that allow readers to apply the concepts to real life situations discusses the application of the most recent research pertinent to concepts in each chapter includes appendices to expand on some of the more complex mathematical techniques required to perform biomechanical analyses and useful resources to aid the student in locating and evaluating scientific evidence

this book captures cornerstone developments in a new body of knowledge and provides an expert resource on a hot topic in rectal surgery transanal minimally invasive surgery tamis was designed for local excision of select rectal neoplasms however soon it became realized that the tamis technique could be used for applications beyond local excision most notably for transanal total mesorectal excision tatme this new operative technique has revolutionized our approach to the distal rectum by allowing for improved access especially in obese male patients with an android pelvis and by minimizing abdominal wall access trauma the endpoints of improved oncologic resection as defined by mesorectal envelope completeness negative circumferential resection margins and negative distal margin are assessed this book details controversies pitfalls and future directions of tatme and tamis chapters are authored by those on the forefront of innovation with tamis and tatme and each is considered an authority on the topic transanal minimally invasive surgery tamis and transanal total mesorectal excision tatme is a must have reference for surgeons who are performing this operation and fellows in training who want to completely understand the various nuances of tamis and tatme

this book covers a wide spectrum of topics relevant to implementing and managing a modern data center the chapters are comprehensive and the flow of concepts is easy to understand cisco reviewer gain a practical knowledge of data center concepts to create a well designed data center including storage and network architecture voip implementation and server consolidation you must understand a variety of key concepts and technologies this book explains those factors in a way that smoothes the path to implementation and management whether you need an introduction to the technologies a refresher course for it managers and data center personnel or an additional resource for advanced study you ll find these guidelines and solutions provide a solid foundation for building reliable designs and secure data center policies understand the common causes and high costs of service outages learn how to measure high availability and achieve maximum levels design a data center using optimum physical environmental and technological elements explore a modular design for cabling points of distribution and wan connections from isps see what must be considered when consolidating data center resources expand your knowledge of best practices and security create a data center environment that is user and manager friendly learn how high availability clustering and disaster recovery solutions can be deployed to protect critical information find out how to use a single network infrastructure for ip data voice and storage

a new look at weak convergence methods in metric spaces from a master of probability theory in this new edition patrick billingsley updates his classic work convergence of probability measures to reflect developments of the past thirty years widely known for his straightforward

approach and reader friendly style dr billingsley presents a clear precise up to date account of probability limit theory in metric spaces he incorporates many examples and applications that illustrate the power and utility of this theory in a range of disciplines from analysis and number theory to statistics engineering economics and population biology with an emphasis on the simplicity of the mathematics and smooth transitions between topics the second edition boasts major revisions of the sections on dependent random variables as well as new sections on relative measure on lacunary trigonometric series and on the poisson dirichlet distribution as a description of the long cycles in permutations and the large divisors of integers assuming only standard measure theoretic probability and metric space topology convergence of probability measures provides statisticians and mathematicians with basic tools of probability theory as well as a springboard to the industrial strength literature available today

this book provides an introduction to the complex field of ubiquitous computing ubiquitous computing also commonly referred to as pervasive computing describes the ways in which current technological models based upon three base designs smart mobile wireless service devices smart environments of embedded system devices and smart interaction between devices relate to and support a computing vision for a greater range of computer devices used in a greater range of human ict and physical environments and activities the author details the rich potential of ubiquitous computing the challenges involved in making it a reality and the prerequisite technological infrastructure additionally the book discusses the application and convergence of several current major and future computing trends key features provides an introduction to the complex field of ubiquitous computing describes how current technology models based upon six different technology form factors which have varying degrees of mobility wireless connectivity and service volatility tabs pads boards dust skins and clay enable the vision of ubiquitous computing describes and explores how the three core designs smart devices environments and interaction based upon current technology models can be applied to and can evolve to support a vision of ubiquitous computing and computing for the future covers the principles of the following current technology models including mobile wireless networks service oriented computing human computer interaction artificial intelligence context awareness autonomous systems micro electromechanical systems sensors embedded controllers and robots covers a range of interactions between two or more ubicom devices between devices and people hci between devices and the physical world includes an accompanying website with powerpoint slides problems and solutions exercises bibliography and further reading graduate students in computer science electrical engineering and telecommunications courses will find this a fascinating and useful introduction to the subject it

will also be of interest to ict professionals software and network developers and others interested in future trends and models of computing and interaction over the next decades

this important text provides a single point of reference for state of the art cloud computing design and implementation techniques the book examines cloud computing from the perspective of enterprise architecture asking the question how do we realize new business potential with our existing enterprises topics and features with a foreword by thomas erl contains contributions from an international selection of preeminent experts presents the state of the art in enterprise architecture approaches with respect to cloud computing models frameworks technologies and applications discusses potential research directions and technologies to facilitate the realization of emerging business models through enterprise architecture approaches provides relevant theoretical frameworks and the latest empirical research findings

the wide ranging implications of the shift to a sharing economy a new model of organizing economic activity that may supplant traditional corporations

this is the fully revised and expanded second edition of english one tongue many voices a book by three internationally distinguished english language scholars who tell the fascinating improbable saga of english in time and space chapters trace the history of the language from its obscure beginnings over 1500 years ago as a collection of dialects spoken by marauding illiterate tribes they show how the geographical spread of the language in its increasing diversity has made english into an international language of unprecedented range and variety the authors examine the present state of english as a global language and the problems pressures and uncertainties of its future online and offline they argue that in spite of the amazing variety and plurality of english it remains a single language

cactus plants are precious natural resources that provide nutritious food for people and livestock especially in dryland areas originally published in 1995 this extensively revised edition provides fresh insights into the cactus plant s genetic resources physiological traits soil preferences and vulnerability to pests it provides invaluable guidance on managing the resource to support food security and offers tips on how to exploit the plant s culinary qualities

this brand new handbook addresses paralympic sports and athletes providing practical information on the medical issues biological factors in the performance of the sports and physical conditioning the book begins with a comprehensive introduction of the paralympic athlete followed by discipline specific reviews from leading authorities in disability sport

science each covering the biomechanics physiology medicine philosophy sociology and psychology of the discipline the paralympic athlete also addresses recent assessment and training tools to enhance the performance of athletes particularly useful for trainers and coaches and examples of best practice on athletes scientific counseling are also presented this new title sits in a series of specialist reference volumes ideal for the use of professionals working directly with competitive athletes

this book discusses large margin and kernel methods for speech and speaker recognition speech and speaker recognition large margin and kernel methods is a collation of research in the recent advances in large margin and kernel methods as applied to the field of speech and speaker recognition it presents theoretical and practical foundations of these methods from support vector machines to large margin methods for structured learning it also provides examples of large margin based acoustic modelling for continuous speech recognizers where the grounds for practical large margin sequence learning are set large margin methods for discriminative language modelling and text independent speaker verification are also addressed in this book key features provides an up to date snapshot of the current state of research in this field covers important aspects of extending the binary support vector machine to speech and speaker recognition applications discusses large margin and kernel method algorithms for sequence prediction required for acoustic modeling reviews past and present work on discriminative training of language models and describes different large margin algorithms for the application of part of speech tagging surveys recent work on the use of kernel approaches to text independent speaker verification and introduces the main concepts and algorithms surveys recent work on kernel approaches to learning a similarity matrix from data this book will be of interest to researchers practitioners engineers and scientists in speech processing and machine learning fields

elite sport typically provides obvious rewards in terms of recognition finance and acclaim for athletic performance increasingly we are becoming aware of the risks that elite athletes their entourage including families sport science support team and coaches are exposed to twelve original articles seven commentaries and a corrigendum are structured in a five chapter format chapter 1 comprising the editorial is titled an overview of mental health in elite sport changing the play book to reflect the advocacy role of this article chapter 2 finding the sweet spot amplifies the voice of key stakeholders across three qualitative studies with three additional commentaries quantitative evidence is presented in chapter 3 which has the sub title the state of play chapter 4 entitled the field of play includes three original publications which present contrasting conceptual approaches to guide researchers in hypothesis generation formulation

and implementation science finally in chapter 5 seeing the ball early prospective perspectives are provided in three publications reinforced by two commentaries the future thinking ideas includes the use of virtual reality training a broadening of the concept of mental health literacy tackling stigma and focusing on the potential positive effect of the natural environment on well being and recovery to date the research topic has generated widespread in the field for example several articles have generated an altmetric score above 40 with one publication meriting an altmetric score of 102 we envisage that the impact of this e book will not simply be measured in citations views downloads nor social media impact but in the discourse that emerges from this collection of contributions from a combined total of 53 authors from across three continents it is our hope that this e book providing a snapshot of global challenges for elite athletes mental health and well being becomes a touchstone for researchers and practitioners in the field

these papers are concerned with new advances and novel solutions in the areas of biofluids image guided surgery tissue engineering and cardiovascular mechanics implant analysis soft tissue mechanics bone remodeling and motion analysis the contents also feature a special section on dental materials dental adhesives and orthodontic mechanics this edition contains many examples tables and figures and together with the many references provides the reader with invaluable information on the latest theoretical developments and applications

education for sustainable development esd is globally acknowledged as a powerful driver of change empowering learners to make decisions and take actions needed to build a just and economically viable society respectful of both the environment and cultural diversity

the classic bestselling reference on architecture now revised and expanded an essential one volume reference of architectural topics using francis d k ching s signature presentation it is the only dictionary that provides concise accurate definitions illustrated with finely detailed hand rendered drawings from arch to wood every concept technology material and detail important to architects and designers are presented in ching s unique style combining text and drawing each term is given a minimum double page spread on large format trim size so that the term can be comprehensively explored graphically showing relations between concepts and sub terms a comprehensive index permits the reader to locate any important word in the text this long awaited revision brings the latest concepts and technology of 21st century architecture design and construction to this classic reference work it is sure to be by the side of and used by any serious architect or designer students of architecture interior designers and those in construction

get up to speed on the latest group policy tools features and best practices group policy fundamentals security and the managed desktop 3rd edition helps you streamline windows and windows server management using the latest group policy tools and techniques this updated edition covers windows 10 and windows server vnext bringing you up to speed on all the newest settings features and best practices microsoft group policy mvp jeremy moskowitz teaches you the major categories of group policy essential troubleshooting techniques and how to manage your windows desktops this is your complete guide to the latest group policy features and functions for all modern windows clients and servers helping you manage more efficiently and effectively perform true desktop and server management with the group policy preferences admx files and additional add ons use every feature of the gpmmc and become a top notch administrator troubleshoot group policy using tools enhanced logs resource kit utilities and third party tools manage printers drive maps restrict hardware and configure internet explorer deploy software to your desktops set up roaming profiles and configure offline files for all your windows clients and manage it all with group policy settings secure your desktops and servers with applocker windows firewall with advanced security and the security configuration manager this is your comprehensive resource to staying current with expert tips techniques and insight

extensively illustrated and evidence based movement system impairment syndromes of the extremities cervical and thoracic spines helps you effectively diagnose and manage musculoskeletal pain it discusses diagnostic categories and their associated muscle and movement imbalances and makes recommendations for treatment also covered is the examination itself plus exercise principles specific corrective exercises and the modification of functional activities case studies provide examples of clinical reasoning and a companion evolve website includes video clips of tests and procedures written and edited by the leading experts on muscle and movement shirley sahrmann and associates this book is a companion to the popular diagnosis and treatment of movement impairment syndromes an organized and structured method helps you make sound decisions in analyzing the mechanical cause of movement impairment syndromes determining the contributing factors and planning a strategy for management detailed yet clear explanations of examination exercise principles specific corrective exercises and modification of functional activities for case management provide the tools you need to identify movement imbalances establish the relevant diagnosis and develop the corrective exercise prescription case studies illustrate the clinical reasoning used in managing musculoskeletal pain evidence based research supports the procedures covered in the text over 360 full color illustrations plus tables and summary boxes highlight essential

concepts and procedures a companion evolve website includes video clips demonstrating the tests and procedures and printable grids from the book

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

australian property law cases materials and analysis contains important case legislation extracts from australian jurisdictions with detailed discussion dr samantha hepburn is associate professor in the faculty of business and law at deakin university australia

the detection of single molecules opens up new horizons in analytical chemistry biology and medicine this discipline which belongs to the expanding field of nanoscience has been rapidly emerging over the last ten years this handbook provides a thorough overview of the field it begins with basics of single molecule detection in solution describes methods and devices fluorescence correlation spectroscopy surface enhanced raman scattering sensors especially dyes screening techniques especially confocal laser scanning microscopy in the second part various applications in life sciences and medicine provide the latest research results this modern handbook is a highly accessible reference for a broad community from advanced researchers specialists and company professionals in physics spectroscopy biotechnology analytical chemistry and medicine written by leading authorities in the field it is timely and fills a gap up to now there exists no handbook concerning this theme

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Mastering the Carbonyl Functional Group: A Comprehensive Guide

The carbonyl functional group (C=O), a ubiquitous feature in organic chemistry, forms the backbone of numerous biologically active molecules, industrial chemicals, and synthetic intermediates. Understanding its reactivity and properties is crucial for comprehending a vast array of chemical processes and biological pathways. This article aims to address common challenges and questions surrounding the carbonyl functional group, providing a structured approach to problem-solving in this important area of organic chemistry.

1. Identifying and Classifying Carbonyl Compounds

The first step in working with carbonyl compounds lies in their accurate identification and classification. The carbonyl group's presence is characterized by a strong absorption band in the infrared (IR) spectrum, typically between 1680–1750 cm^{-1} . However, the precise position of this band can vary depending on the substituents attached to the carbonyl carbon. Carbonyl compounds are primarily classified into two broad categories: Aldehydes (RCHO): The carbonyl group is located at the end of a carbon chain, with at least one hydrogen atom attached to the carbonyl carbon. Formaldehyde (HCHO), acetaldehyde (CH₃CHO), and benzaldehyde (C₆H₅CHO) are examples. Ketones (RCOR): The carbonyl group is located within a carbon chain, bonded to two other carbon atoms. Acetone (CH₃COCH₃), butanone (CH₃CH₂COCH₃), and cyclohexanone are examples. Example: Identify and classify the carbonyl compound in the following molecule: CH₃CH₂COCH₂CH₃. Solution: The molecule contains a carbonyl group (C=O) located within the carbon chain, bonded to two alkyl groups (ethyl and propyl). Therefore, it is a ketone specifically 3-pentanone.

2. Understanding the Reactivity of the Carbonyl Group

The carbonyl group's reactivity stems from the polar nature of the C=O bond. The oxygen atom

is significantly more electronegative than the carbon atom, leading to a partial positive charge (+) on the carbon and a partial negative charge (-) on the oxygen. This polarity makes the carbonyl carbon electrophilic (attracts electrons) and susceptible to nucleophilic attack. The oxygen, conversely, can be protonated under acidic conditions. This electrophilic nature of the carbonyl carbon is central to many important reactions, including: Nucleophilic addition: Nucleophiles attack the electrophilic carbonyl carbon, forming a tetrahedral intermediate. This is followed by proton transfer steps leading to various products. Examples include the formation of hemiacetals/acetals and cyanohydrins. Nucleophilic acyl substitution: In this case, the nucleophile replaces a leaving group attached to the carbonyl carbon. This is crucial in reactions involving acid chlorides, esters, and amides.

3. Predicting and Analyzing Reactions Involving Carbonyl Groups

Predicting the outcome of reactions involving carbonyl compounds requires understanding the nature of the reactants and reaction conditions. For example, the reaction of a carbonyl compound with a Grignard reagent (a strong nucleophile) will always result in the addition of an alkyl or aryl group to the carbonyl carbon, forming an alcohol after an acidic workup. Example: Predict the product of the reaction between propanal and methylmagnesium bromide (Grignard reagent) followed by an acidic workup. Solution: The methyl group from the Grignard reagent will add to the carbonyl carbon of propanal, forming a new carbon-carbon bond. After acidic workup, this will yield 2-methyl-1-butanol.

4. Spectroscopic Analysis of Carbonyl Compounds

Spectroscopic techniques, particularly IR and NMR spectroscopy, play a vital role in identifying and characterizing carbonyl compounds. As mentioned, IR spectroscopy reveals the characteristic C=O stretching frequency. NMR spectroscopy provides information on the chemical environment of the atoms surrounding the carbonyl group, allowing for structural elucidation.

5. Common Synthetic Applications of Carbonyl Compounds

Carbonyl compounds serve as essential building blocks in organic synthesis. Their versatility allows for the creation of a wide range of functional groups and complex molecules. For example, carbonyl compounds are used in the synthesis of alcohols, amines, carboxylic acids, and many other important compounds.

Summary

The carbonyl functional group represents a central theme in organic chemistry, with its reactivity dictating the course of numerous important reactions. Understanding its polarity, electrophilic nature, and susceptibility to nucleophilic attack is crucial for successfully predicting and analyzing reactions. Spectroscopic techniques provide invaluable tools for characterizing carbonyl compounds, while their synthetic versatility makes them indispensable building blocks in organic synthesis.

FAQs:

1. What is the difference between an aldehyde and a ketone in terms of oxidation? Aldehydes can be easily oxidized to carboxylic acids, while ketones are generally resistant to oxidation under mild conditions. 2. How does the steric hindrance around the carbonyl group affect its reactivity? Increased steric hindrance around the carbonyl group can hinder nucleophilic attack, reducing its reactivity. 3. What are some common protecting groups for carbonyl groups? Acetals and ketals are commonly used protecting groups for carbonyl groups, preventing unwanted reactions during multi-step syntheses. 4. How can I distinguish between an aldehyde and a ketone using chemical tests? Tollens' test and Fehling's test are specific tests for aldehydes, giving a positive result with aldehydes but not ketones. 5. What is the significance of the carbonyl group in biological systems? The carbonyl group is crucial in many biological molecules, including carbohydrates, amino acids, and many enzymes, playing essential roles in metabolic processes and cellular function.

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