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william rand kenan jr 1872 1965 is best remembered throughout his native north carolina as a major benefactor of his alma mater the university of north carolina at chapel hill but he was also a gifted scientist and business executive in this first

the new age of biologic treatment of the acl is coming in the acl handbook knee biology mechanics and treatment the authors cover the past and current state of acl injuries and treatment and then introduce and explain the key concepts for understanding the new biologic approach to acl treatment the use of factors to enhance graft healing are reviewed as well as an in depth review of the science of platelet rich plasma and its cellular components platelets white cells and plasma chapters on in vitro models for science as well as the advantages and disadvantages of animal models for acl research are included as are chapters on the new technique of bio enhanced acl repair all are discussed in easily readable text aimed at anyone with an interest of what is coming next in acl surgery

volume 10 in the marcus garvey and universal negro improvement association papers

covering legendary and obscure intercity passenger trains in a dozen southeastern states this book details the golden age of train travel the story begins with the inception of steam locomotives in 1830 in charleston south carolina continuing through the mid 1930s changeover to diesel and the debut of amtrak in 1971 to the present throughout the book explores the technological achievements the romance and the economic impact of traveling on the tracks other topics include contemporary museums and excursion trains the development of commuter rails monorails light rails and other intracity transit trains the social impact of train travel and historical rail terminals and facilities the book is supplemented with more than 160 images and 10 appendices

this three volume set lnai 13031 lnai 13032 and lnai 13033 constitutes the thoroughly refereed proceedings of the 18th pacific rim conference on artificial intelligence pricai 2021 held in hanoi vietnam in november 2021 the 93 full papers and 28 short papers presented in these volumes were carefully reviewed and selected from 382 submissions pricai covers a wide range of topics in the areas of social and economic importance for countries in the pacific rim artificial intelligence machine learning natural language processing knowledge representation and reasoning planning and scheduling computer vision distributed artificial intelligence search methodologies etc part ii includes two thematic blocks natural language processing followed by neural networks and deep learning

first published in 1954 a time when few books on african history were written from an african perspective an intimate history of africa and its ancient civilizations the book opposed the stereotyped and often racist histories of africa today a half century after its initial publication african glory still provides a vivid and dynamic connection to the african past

this easy to read reference presents a succinct overview of clinically focused topics covering the prevention treatment and rehabilitation of acl injuries in the female athlete written by two professional team physicians it provides practical focused information for orthopaedic and sports medicine surgeons and physicians covers acl injury risk factors and prevention including biomechanics biology and anatomy of the female athlete discusses graft choices the biology of healing rehabilitation and return to play future options for treatment and more addresses special considerations such as pediatric acl and revision acl consolidates today s available information and experience in this timely area into one convenient resource

this book constitutes the refereed proceedings of the 7th international conference on cognitive computing iccc 2023 held in shenzhen china during december 17 18 2023 the 9 full papers in this book were carefully reviewed and selected from 14 submissions they are organized in topical sections as follows cognitive computing technologies and infrastructure cognitive computing applications sensing intelligence cognitive analysis mobile services cognitive computing on smart home and cognitive computing on smart city

this issue of primary care clinics in office practice guest edited by dr peter j carek is devoted to sports medicine articles in this issue include preparticipation evaluation cardiac disease in athletes sports supplements pearls and pitfalls common prescription medications used in athletes female athletes principles of rehabilitation common upper extremity injuries hip and knee injuries ankle and foot injuries back injuries neck injuries and head trauma and injuries

against the background of a changing world order colonial powers frequently challenged pan africanism and the reasonable arguments voiced in pan african congresses in pan africanism visions initiatives and transformations mano delea highlights how pan africanism moved its epicenter as the circumstances of world politics changed from the diaspora to africa where it was transformed and institutionalized unlike other research done on pan africanism delea offers three new additions to this academic research by addressing and analyzing the responses of leading historical newspapers to the pan african congresses from 1900 to 1945 examining the transformation of and division between pan africanism as a social movement and as an institutionalized phenomenon and discussing the epistemologies and knowledge production within pan africanism throughout its history

celebrate over 150 years of the north american railroad with this visual history you ll be amazed by over 400 modern and vintages photographs of these trains

the st croix born harlem based hubert harrison 1883 1927 was a brilliant writer orator educator critic and activist who combined class consciousness and anti white supremacist

race consciousness into a potent political radicalism harrison s ideas profoundly influenced new negro militants including a philip randolph and marcus garvey and his work is a key link in the two great strands of the civil rights black liberation struggle the labor and civil rights movement associated with randolph and martin luther king jr and the race and nationalist movement associated with garvey and malcolm x in this second volume of his acclaimed biography jeffrey b perry traces the final decade of harrison s life from 1918 to 1927 perry details harrison s literary and political activities foregrounding his efforts against white supremacy and for racial consciousness and unity in struggles for equality and radical social change the book explores harrison s role in the militant new negro movement and the international colored unity league as well as his prolific work as a writer educator and editor of the new negro and the negro world perry examines harrison s interactions with major figures such as garvey randolph j a rogers arthur schomburg and other prominent individuals and organizations as he agitated educated and organized for democracy and equality from a race conscious radical internationalist perspective this magisterial biography demonstrates how harrison s life and work continue to offer profound insights on race class religion immigration war democracy and social change in america

in this issue of physical medicine and rehabilitation clinics guest editors drs sara cuccurullo kristen harris and hayk petrosyan bring their considerable expertise to the topic of women s health rehabilitation medicine top experts in the field discuss specific issues related to women s health within the field of rehabilitation medicine and current treatment paradigms for both musculoskeletal and neurologic topics contains 13 relevant practice oriented topics including the role of rehabilitation for women with cancer pelvic pain and pelvic floor disorders in women considerations for long covid rehabilitation in women common pain disorders in women and more provides in depth clinical reviews on women s health rehabilitation medicine offering actionable insights for clinical practice presents the latest information on this timely focused topic under the leadership of experienced editors in the field authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

the year book of orthopedics brings you abstracts of the articles that reported the year s breakthrough developments in orthopedics carefully selected from more than 300 journals worldwide expert commentaries evaluate the clinical importance of each article and discuss its application to your practice there s no faster or easier way to stay informed topics covered include trauma and amputation surgery hip and knee replacement sports medicine and orthopedic oncology

this book constitutes the thoroughly refereed post conference proceedings of the satellite events of the 13th european conference on the semantic eswc 2016 held in heraklion greece in may june 2016 the volume contains 16 full papers and 38 poster and demonstration papers carefully selected from 12 workshops focusing on specific research issues related to the semantic

this nostalgic authoritative history of the railroad industry in the united states is richly illustrated with more than 200 images covering everything from the road s beginning to its heyday in the 1940s and 50s and its current state features include black and white

and period color photographs maps timetables promotional materials and other memorabilia and details about railroading s five most fascinating components its locomotives freight trains passenger trains depots and workforce

issues in orthopedics and occupational and sports medicine 2013 edition is a scholarlyeditions book that delivers timely authoritative and comprehensive information about additional research the editors have built issues in orthopedics and occupational and sports medicine 2013 edition on the vast information databases of scholarlynews you can expect the information about additional research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of issues in orthopedics and occupational and sports medicine 2013 edition has been produced by the world s leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at scholarlyeditions and available exclusively from us you now have a source you can cite with authority confidence and credibility more information is available at scholarlyeditions com

over 200 pages of premium nrl supercoach content written by wenin nick wacko

in vielen bereichen der linguistik werden textkorpora sprachkorpora oder multimodale korpora heute als empirische basis verwendet aufbauend auf methoden des 19 jahrhunderts haben sich dabei mit dem aufkommen von elektronischen korpora seit den 1940ern neue standards für linguistische annotation und vorverarbeitung sowie für qualitative und quantitative untersuchungen entwickelt das handbuch bietet einen umfassenden Überblick über geschichte methoden und anwendungen der korpuslinguistik die einzelnen Überblicke und spezialartikel sind von experten und expertinnen der jeweiligen gebiete geschrieben dabei wird auf klare und umfassende darstellung eine gute vernetzung zwischen den artikel und weiterführende hinweise wert gelegt

this work addresses the gap in the current collective action literature exposed by the new information and communication technologies icts landscape by bringing together qualitative and quantitative studies from computational and social sciences the book offers a rigorous and systematic investigation of both methodological and theoretical underpinnings and thus collectively promotes a symbiotic and synergistic advancement of the multiple interconnected disciplines in studying online collective actions more specifically the book is intended to illuminate several fundamental and powerful yet theoretically undeveloped and largely unexplored aspects of collective action in the participatory media e g social media through in depth exploration of relevant concepts theories methodologies applications and case studies the reader will gain an advanced understanding of collective action with the advent of the new generation of icts enabled by social media and the internet the developed theories will be valuable and comprehensive references for those interested in examining the role of icts not only in collective action but also in decision and policy making understanding the dynamics of interaction collaboration cooperation communication as well as information flow and propagation and social network research for years to come further the book also serves as an extensive repository of data sets and tools that can be used by researchers leading to a deeper and more fundamental understanding of the dynamics of the crowd in

online collective actions

automated speaking assessment using language technologies to score spontaneous speech provides a thorough overview of state of the art automated speech scoring technology as it is currently used at educational testing service ets its main focus is related to the automated scoring of spontaneous speech elicited by toefl ibt speaking section items but other applications of speech scoring such as for more predictable spoken responses or responses provided in a dialogic setting are also discussed the book begins with an in depth overview of the nascent field of automated speech scoring its history applications and challenges followed by a discussion of psychometric considerations for automated speech scoring the second and third parts discuss the integral main components of an automated speech scoring system as well as the different types of automatically generated measures extracted by the system features related to evaluate the speaking construct of communicative competence as measured defined by the toefl ibt speaking assessment finally the last part of the book touches on more recent developments such as providing more detailed feedback on test takers spoken responses using speech features and scoring of dialogic speech it concludes with a discussion summary and outlook on future developments in this area written with minimal technical details for the benefit of non experts this book is an ideal resource for graduate students in courses on language testing and assessment as well as teachers and researchers in applied linguistics

the multi volume set of lncs books with volume numbers 15301 15333 constitutes the refereed proceedings of the 27th international conference on pattern recognition icpr 2024 held in kolkata india during december 1 5 2024 the 963 papers presented in these proceedings were carefully reviewed and selected from a total of 2106 submissions they deal with topics such as pattern recognition artificial intelligence machine learning computer vision robot vision machine vision image processing speech processing signal processing video processing biometrics human computer interaction hci document analysis document recognition biomedical imaging bioinformatics

the two volume set lncs 10761 10762 constitutes revised selected papers from the cicling 2017 conference which took place in budapest hungary in april 2017 the total of 90 papers presented in the two volumes was carefully reviewed and selected from numerous submissions in addition the proceedings contain 4 invited papers the papers are organized in the following topical sections part i general morphology and text segmentation syntax and parsing word sense disambiguation reference and coreference resolution named entity recognition semantics and text similarity information extraction speech recognition applications to linguistics and the humanities part ii sentiment analysis opinion mining author profiling and authorship attribution social network analysis machine translation text summarization information retrieval and text classification practical applications

religion s persistent and new visibility in political life has prompted a significant global debate one of this debate s key features concerns the nature and impact of secularization this collection of essays draws together leading sociologists historians philosophers of religion and political theorists in order to provide a broad and up to

date account of religion after secularization contributors explore the meaning and conceptual legacies of religion as well as the unique features of the Australian case such as religion as it relates to law education gender media and radical political movements intervening in the current debate this book provides summative accounts of the historical cultural and legal interactions that have informed Australia's relationship to religion and secularization contributors critically analyze and engage with secular political theory concerning the public sphere while also dissecting deliberative politics and democratic practices this book propels the debate over religion's place in public life in new directions and promotes urgently needed public understanding

special edition of the federal register containing a codification of documents of general applicability and future effect with ancillaries

rehabilitation is by definition the restoration of optimal form and function for an athlete in this edition in the encyclopedia series the editor and contributors advocate that rehabilitation should begin as soon as possible after the injury occurs alongside therapeutic measures such as anti-inflammatories and other pain-killing agents this might also begin before or immediately after surgery the rehabilitative process is therefore managed by a multi-disciplinary team including physicians physiotherapists psychologists nutritionists and athletic trainers amongst others this book considers the three phases of rehabilitation pain relief protection of the affected area and limitation of tissue damage limitation of impairment and recovery of flexibility strength endurance balance and coordination and finally the start of conditioning to return to training and competition

great railroad museums of the USA is a guide for the devoted railfan it details the sixty-seven largest most interesting and most important railroad museums in the country which are classified into good really good great and really great groups individually the museums are discussed and highlights of their collections are listed all are rated on their size the rarity and antiquity of their collections the quality of their work the scope of their collections and their presentation to the public the book is indexed and a map shows the museum's geographic locations a special index lists more than a hundred sixty especially interesting cars and locomotives and describes where they can be found ninety photographs provide illustration bonus chapters list and describe the six best museum rail rides in the country and nineteen instances of significant rail preservation outside of traditional railroad museums

between 1492 and 1820 about two thirds of the people who crossed the Atlantic to the Americas were Africans with the exception of the Spanish all the European empires settled more Africans in the New World than they did Europeans the vast majority of these enslaved men and women worked on plantations and their labor was the foundation for the expansion of the Atlantic economy during the seventeenth and eighteenth centuries until relatively recently comparatively little attention was paid to the perspectives daily experiences hopes and especially the political ideas of the enslaved who played such a central role in the making of the Atlantic world over the past decades however huge strides have been made in the study of the history of slavery and emancipation in the Atlantic world this collection brings together some of the key

contributions to this growing body of scholarship showing a range of methodological approaches that can be used to understand and reconstruct the lives of these enslaved people

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Is Diamond Brittle? A Comprehensive Look at Diamond's Hardness and Fragility

Diamonds are renowned for their exceptional hardness, often cited as the hardest naturally occurring substance on Earth. This reputation leads many to believe they are indestructible. However, the concepts of hardness and brittleness are distinct. This article explores whether diamonds are brittle, examining the scientific basis of their properties and providing real-world examples to clarify the often-misunderstood nature of this precious gemstone.

I. Understanding Hardness and Brittleness:

Q: What is hardness? **A:** Hardness refers to a material's resistance to scratching or indentation. Diamond's high hardness is due to its strong covalent bonds, a strong, highly directional type of bond where carbon atoms share electrons equally, forming a robust three-dimensional tetrahedral structure. This makes it exceptionally resistant to deformation under pressure from other materials. The Mohs hardness scale, a relative measure of scratch resistance, ranks diamond at a perfect 10, the highest possible score.

Q: What is brittleness? **A:** Brittleness describes a material's tendency to fracture or shatter under stress, even if that stress is relatively small compared to its strength in other aspects. A brittle material has little to no plastic deformation before fracture. This means it doesn't bend or deform significantly before breaking. Instead, it breaks suddenly along cleavage planes.

II. Diamond's Brittleness: A Paradox of Strength and Weakness:

Q: So, are diamonds brittle? **A:** Yes, despite their exceptional hardness, diamonds are indeed brittle. While they resist scratching exceptionally well, they are surprisingly susceptible to fracturing under impact or sudden stress. This seemingly paradoxical nature stems from the directional nature of their strong covalent bonds. These bonds are extremely strong within the crystal lattice, leading to high hardness. However, they are comparatively weak in other directions, making them prone to cleavage – fracturing along specific crystallographic planes.

Q: How does the crystal structure contribute to brittleness? **A:** The diamond's cubic crystal structure possesses specific planes of weakness where the bonds are less densely packed. When subjected to sufficient stress, these planes act as preferential fracture paths. The impact doesn't need to be immensely powerful; a sharp blow can cause the crystal to cleave along these planes, resulting in a clean break. This is why diamond cutters utilize controlled cleaving techniques to shape rough diamonds.

III. Real-World Examples of Diamond Brittleness:

Q: Can you provide examples of diamonds fracturing? **A:** Several real-world scenarios illustrate diamond's brittleness:

- Diamond cutting:** The process of cutting and polishing diamonds relies heavily on exploiting their brittleness. Skilled cutters use precisely angled blows to cleave the diamond along its natural cleavage planes, rather than trying to grind or saw through it. This controlled fracture is crucial for shaping the rough stone into a gem.
- Accidental breakage:** Diamonds can chip or shatter if dropped or subjected to significant impact. Even a seemingly small fall onto a hard surface can cause catastrophic fracture due to the concentrated stress applied to a specific point.
- Thermal shock:** Rapid temperature changes can cause internal stresses within the diamond, potentially leading to fracturing. This is especially relevant in industrial applications where diamonds are exposed to extreme temperatures.

IV. Industrial Implications of Diamond's Brittleness:

Q: How does brittleness affect the industrial use of diamonds? **A:** While diamond's hardness is invaluable in industrial

applications (e.g., cutting tools, polishing agents), its brittleness necessitates careful handling and design considerations. Industrial diamonds are often embedded in a tougher matrix material to improve their toughness and resistance to chipping. Furthermore, the design of diamond-tipped tools aims to minimize stress concentration points to prevent premature fracturing. V. Conclusion: Diamonds possess an intriguing duality: They are exceptionally hard, resisting scratching remarkably well, but are also brittle, readily fracturing under impact or stress. This paradoxical nature is a direct consequence of their strong, yet directionally dependent, covalent bonding within a highly ordered crystal structure. Understanding this distinction is crucial for appreciating the true nature of diamonds and their applications, both in jewelry and industry. FAQs: 1. Q: Can diamonds be scratched? A: While extremely hard, diamonds can be scratched, albeit only by other diamonds. The Mohs scale reflects relative hardness; only materials above diamond on the scale (which currently doesn't exist naturally) can scratch it. 2. Q: How can I protect my diamond jewelry from breakage? A: Avoid impacts, keep it away from abrasive materials, and store it carefully in a protective case. Avoid extreme temperature changes. 3. Q: Are all diamonds equally brittle? A: The brittleness can vary slightly depending on the crystal structure and the presence of internal flaws or inclusions. Diamonds with fewer imperfections are generally less prone to fracturing. 4. Q: What are synthetic diamonds, and are they less brittle? A: Synthetic diamonds are created in laboratories and have a similar structure to natural diamonds. Their brittleness is comparable to natural diamonds, though the control over their growth can potentially lead to fewer imperfections and thus slightly higher fracture resistance. 5. Q: What is the difference between cleavage and fracture? A: Cleavage refers to the tendency of a material to break along specific crystallographic planes due to weak bonding in those directions. Fracture is a more general term for the separation of a solid into two or more parts. Cleavage is a type of fracture, but not all fractures are cleavage.

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