

4.2 Consider the equations for reactions I to III below.

A and B represent organic compounds that are POSITIONAL isomers.
X is an inorganic product.

I	$\text{CH}_3\text{CH}_2\text{CHCHCH}_3 + \text{HCl} \rightarrow \text{A} + \text{B}$
II	$\text{A} \xrightarrow[\Delta]{\text{H}_2\text{O}} \text{CH}_3\text{CH}_2\text{CH}_2\text{CH}(\text{OH})\text{CH}_3 + \text{X}$
III	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}(\text{OH})\text{CH}_3 \rightarrow \text{CH}_3\text{CH}_2\text{CHCHCH}_3 + \text{H}_2\text{O}$

Write down the:

4.2.1 Definition of positional isomers

(2)

4.2.2 Type of reaction represented by reaction I

(1)

4.2.3 STRUCTURAL formula of compound B

(3)

4.2.4 Formula of X

(1)

4.2.5

H₂O

(are they PO₁₀?)

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PHYSICAL

SCIENCES P.2

QN 4

Memo Physical Science Papr 2 September 2013

James F. Barnett Jr.



Memo Physical Science Papr 2 September 2013:

The Secure and the Dispossessed Nick Buxton, Ben Hayes, 2015-11-20 While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants The Secure and the Dispossessed looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures This Changes Everything Naomi Klein, 2014-09-16 The most important book yet from the author of the international bestseller The Shock Doctrine a brilliant explanation of why the climate crisis challenges us to abandon the core free market ideology of our time restructure the global economy and remake our political systems In short either we embrace radical change ourselves or radical changes will be visited upon our physical world The status quo is no longer an option In This Changes Everything Naomi Klein argues that climate change isn't just another issue to be neatly filed between taxes and health care It's an alarm that calls us to fix an economic system that is already failing us in many ways Klein meticulously builds the case for how massively reducing our greenhouse emissions is our best chance to simultaneously reduce gaping inequalities re-imagine our broken democracies and rebuild our gutted local economies She exposes the ideological desperation of the climate change deniers the messianic delusions of the would-be geoengineers and the tragic defeatism of too many mainstream green initiatives And she demonstrates precisely why the market has not and cannot fix the climate crisis but will instead make things worse with ever more extreme and ecologically damaging extraction methods accompanied by rampant disaster capitalism Klein argues that the changes to our relationship with nature and one another that are required to respond to the climate crisis humanely should not be viewed as grim penance but rather as a kind of gift a catalyst to transform broken economic and cultural priorities and to heal long festering historical wounds And she documents the inspiring movements that have already begun this process communities that are not just refusing to be sites of further fossil fuel extraction but are building the next regeneration-based economies right now Can we pull off these changes in time Nothing is certain Nothing except that climate change changes everything And for a very brief time the nature of that change is still up to us

Indigenous Peoples' Governance of Land and Protected Territories in the Arctic Thora Martina

Herrmann, Thibault Martin, 2015-12-22 This book addresses critical questions and analyses key issues regarding Indigenous Aboriginal Peoples and governance of land and protected areas in the Arctic It brings together contributions from scientists

indigenous and non indigenous researchers local leaders and members of the policy community that document Indigenous Aboriginal approaches to governance of land and protected areas at the local regional and international level explore new territorial governance models that are emerging as part of the Indigenous Aboriginal governance within Arctic States provinces territories and regions analyse the recognition or lack thereof concerning indigenous rights to self determination in the Arctic and examine how traditional decision making arrangements and practices can be linked with governments in the process of good governance The book highlights essential lessons learned success stories and remaining issues all of which are useful to address issues of Arctic governance of land and protected areas today and which could also be relevant for future governance arrangements

Biofuels for Aviation Christopher Chuck, 2016-06-02 Biofuels for Aviation Feedstocks Technology and Implementation presents the issues surrounding the research and use of biofuels for aviation such as policy markets certification and performance requirements life cycle assessment and the economic and technical barriers to their full implementation Readers involved in bioenergy and aviation sectors research planning or policy making activities will benefit from this thorough overview The aviation industry s commitment to reducing GHG emissions along with increasing oil prices have sparked the need for renewable and affordable energy sources tailored to this sector s very specific needs As jet engines cannot be readily electrified turning to biofuels is the most viable option However aviation is a type of transportation for which traditional biofuels such as bioethanol and biodiesel do not fulfill key fuel requirements Therefore different solutions to this situation are being researched and tested around the globe which makes navigating this scenario particularly challenging This book guides readers through this intricate subject bringing them up to speed with its current status and future prospects both from the academic and the industry point of view Science and technology chapters delve into the technical aspects of the currently tested and the most promising technology in development as well as their respective feedstocks and the use of additives as a way of adapting them to meet certain specifications Conversion processes such as hydrotreatment synthetic biology pyrolysis hydrothermal liquefaction and Fisher Tropsch are explored and their results are assessed for current and future viability Presents the current status of biofuels for the aviation sector including technologies that are currently in use and the most promising future technologies their production processes and viability Explains the requirements for certification and performance of aviation fuels and how that can be achieved by biofuels Explores the economic and policy issues as well as life cycle assessment a comparative techno economic analysis of promising technologies and a roadmap to the future Explores conversion processes such as hydrotreatment synthetic biology pyrolysis hydrothermal liquefaction and Fisher Tropsch

Overcoming Barriers to Deployment of Plug-in Electric Vehicles National Research Council, Transportation Research Board, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Overcoming Barriers to Electric-Vehicle Deployment, 2015-06-26 In the past few years interest in plug in electric vehicles PEVs has grown Advances in battery and other technologies new federal standards

for carbon dioxide emissions and fuel economy state zero emission vehicle requirements and the current administration's goal of putting millions of alternative fuel vehicles on the road have all highlighted PEVs as a transportation alternative. Consumers are also beginning to recognize the advantages of PEVs over conventional vehicles such as lower operating costs, smoother operation and better acceleration, the ability to fuel up at home and zero tailpipe emissions when the vehicle operates solely on its battery. There are, however, barriers to PEV deployment including the vehicle cost, the short all electric driving range, the long battery charging time, uncertainties about battery life, the few choices of vehicle models and the need for a charging infrastructure to support PEVs. What should industry do to improve the performance of PEVs and make them more attractive to consumers? At the request of Congress, *Overcoming Barriers to Deployment of Plug in Electric Vehicles* identifies barriers to the introduction of electric vehicles and recommends ways to mitigate these barriers. This report examines the characteristics and capabilities of electric vehicle technologies such as cost, performance, range, safety and durability and assesses how these factors might create barriers to widespread deployment. *Overcoming Barriers to Deployment of Plug in Electric Vehicles* provides an overview of the current status of PEVs and makes recommendations to spur the industry and increase the attractiveness of this promising technology for consumers. Through consideration of consumer behaviors, tax incentives, business models, incentive programs and infrastructure needs, this book studies the state of the industry and makes recommendations to further its development and acceptance. **Federal Register**, 2013-09

Engineering Vulnerability Sarah E. Vaughn, 2022-02-07 In *Engineering Vulnerability* Sarah E. Vaughn examines climate adaptation against the backdrop of ongoing processes of settler colonialism and the global climate change initiatives that seek to intervene in the lives of the world's most vulnerable. Her case study is Guyana in the aftermath of the 2005 catastrophic flooding that ravaged the country's Atlantic coastal plain. The country's ensuing engineering projects reveal the contingencies of climate adaptation and the capacity of flooding to shape Guyanese expectations about racial inequality. Analyzing the coproduction of race and vulnerability, Vaughn details why climate adaptation has implications for how we understand the past and the continued human settlement of a place. Such understandings become particularly apparent not only through experts and ordinary citizens' disputes over resources but in their attention to the ethical practice of technoscience over time. Approaching climate adaptation this way, Vaughn exposes the generative openings as well as gaps in racial thinking for theorizing climate action, environmental justice and more broadly future life on a warming planet. Duke University Press Scholars of Color First Book Award recipient. [Technological Innovation in Legacy Sectors](#) William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy faces two deep problems: expanding innovation and raising the rate of quality job creation. Both have roots in a neglected problem: the resistance of Legacy economic sectors to innovation. While the U.S. has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology, most of its economy is locked into Legacy sectors defended by technological, economic, political

social paradigms that block competition from disruptive innovations that could challenge their models Americans like to build technology covered wagons and take them out west to open new innovation frontiers we don't head our wagons back east to bring innovation to our Legacy sectors By failing to do so the economy misses a major opportunity for innovation which is the bedrock of U S competitiveness and its standard of living Technological Innovation in Legacy Sectors uses a new unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors energy air and auto transport the electric power grid buildings manufacturing agriculture health care delivery and higher education and develops approaches to understand and transform them It finds both strengths and obstacles to innovation in the national innovation environments a new concept that combines the innovation system and the broader innovation context for a group of Asian and European economies Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process By increasingly offshoring production the U S is losing important parts of its innovation capacity Innovate here produce here where the U S took all the gains of its strong innovation system at every stage is being replaced by innovate here produce there which threatens to lead to produce there innovate there To bring innovation to Legacy sectors authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through implementation They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations In the specific case of advanced manufacturing the production ecosystem can be recreated to reverse jobless innovation and add manufacturing led innovation to the U S's still strong research oriented innovation system

Vibrio ecology, pathogenesis and evolution

Rita R Colwell, Daniela Ceccarelli, 2014-10-24 Vibrios are Gram negative bacilli that occur naturally in marine estuarine and freshwater systems Some species include human and animal pathogens capable of causing gastroenteritis wound infections cholera and fatal septicemia Over the past decades cutting edge research on Vibrio genomics has promoted a tremendous advance in our knowledge of these pathogens Significant developments include the discovery of emerging epidemic clones tracking the spread of new strain variants and an intensified appreciation of the role of mobile genetic elements in antibiotic resistance spread as well as pathogenesis Furthermore improved understanding of the interaction of Vibrios with a variety of living organisms in the aquatic environment has documented the significant role of environmental reservoirs in their seasonal cycle favoring persistence of the pathogen during inter epidemic periods and enhancing disease transmission This Research Topic is dedicated to our current understanding in these areas and will bring together leading experts in the field to provide a deep overview of Vibrios ecology and evolution and will suggest the pathway of future research in this field

Beyond

Control James F. Barnett Jr., 2017-03-16 Beyond Control reveals the Mississippi as a waterway of change unnaturally confined by ever larger levees and control structures During the great flood of 1973 the current scoured a hole beneath the main structure near Baton Rouge and enlarged a pre-existing football field size crater That night the Mississippi River nearly

changed its course for a shorter and steeper path to the sea Such a map changing reconfiguration of the country s largest river would bear national significance as well as disastrous consequences for New Orleans and towns like Morgan City at the mouth of the Atchafalaya River Since 1973 the US Army Corps of Engineers Control Complex at Old River has kept the Mississippi from jumping out of its historic channel and plunging through the Atchafalaya Basin to the Gulf of Mexico Beyond Control traces the history of this phenomenon beginning with a major channel shift around 3 000 years ago By the time European colonists began to explore the Lower Mississippi Valley a unique confluence of waterways had formed where the Red River joined the Mississippi and the Atchafalaya River flowed out into the Atchafalaya Basin A series of human alterations to this potentially volatile web of rivers starting with a bend cutoff in 1831 by Captain Henry Miller Shreve set the forces in motion for the Mississippi s move into the Atchafalaya Basin Told against the backdrop of the Lower Mississippi River s impending diversion the book s chapters chronicle historic floods rising flood crests a changing strategy for flood protection and competing interests in the management of the Old River outlet Beyond Control is both a history and a close look at an inexorable living process happening now in the twenty first century

The Mathematical-Function Computation Handbook Nelson H.F. Beebe, 2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book s software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology s 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardware and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades

Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, D.B.A., Mehdi, 2014-07-31 This 10 volume compilation of authoritative research based articles

contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology

Provided by publisher Fluid Mechanics and Hydraulics Vedat Batu,2024-05-27 Fluid Mechanics and Hydraulics

Illustrative Worked Examples of Surface and Subsurface Flows presents the basic principles of fluid mechanics through the use of numerous worked examples Some readers may have interest only in the application parts of various principles without paying too much attention to the derivation details of equations Other readers may have interest both in derivation details and their applications As a result this book is designed to address both needs and most derivation details are included as example problems Therefore those who are not interested in the details of derivations may skip them without interrupting the effective use of the book It serves as an effective learning source for college students and as a teaching tool for instructors with an included solutions manual as well as for practicing professionals in the areas of fluid mechanics and hydraulics

Aerospace Materials and Material Technologies N. Eswara Prasad,R.J.H. Wanhill,2016-11-07 This book serves as a comprehensive resource on various traditional advanced and futuristic material technologies for aerospace applications encompassing nearly 20 major areas Each of the chapters addresses scientific principles behind processing and production production details equipment and facilities for industrial production and finally aerospace application areas of these material technologies The chapters are authored by pioneers of industrial aerospace material technologies This book has a well planned layout in 4 parts The first part deals with primary metal and material processing including nano manufacturing The second part deals with materials characterization and testing methodologies and technologies The third part addresses structural design Finally several advanced material technologies are covered in the fourth part Some key advanced topics such as Structural Design by ASIP Damage Mechanics Based Life Prediction and Extension and Principles of Structural Health Monitoring are dealt with at equal length as the traditional aerospace materials technology topics This book will be useful to students researchers and professionals working in the domain of aerospace materials

The DARPA Model for Transformative Technologies: Perspectives on the U.S. Defense Advanced Research Projects Agency William Boone Bonvillian,Richard Van Atta,Patrick Windham,2020-01-09 The authors have done a masterful job of charting the important story of DARPA one of the key catalysts of technological innovation in US recent history By plotting the development achievements and structure of the leading world agency of this kind this book stimulates new thinking in the field of technological innovation with bearing on how to respond to climate change pandemics cyber security and other global problems of our time The DARPA Model provides a useful guide for governmental agency and policy leaders and for anybody interested in the role of governments in technological innovation Dr Kent Hughes Woodrow Wilson International Center for Scholars This volume contains a remarkable collection of extremely insightful articles on the world s most successful advanced technology agency Drafted by the leading US experts on DARPA it provides a variety of perspectives that in turn

benefit from being presented together in a comprehensive volume. It reviews DARPA's unique role in the U.S. innovation system as well as the challenges DARPA and its clones face today. As the American model is being considered for adoption by a number of countries worldwide, this book makes a welcome and timely contribution to the policy dialogue on the role played by governments in stimulating technological innovation.

Prof. Charles Wessner, Georgetown University: The U.S. Defense Advanced Research Projects Agency (DARPA) has played a remarkable role in the creation of new transformative technologies revolutionizing defense with drones and precision-guided munitions and transforming civilian life with portable GPS receivers, voice recognition software, self-driving cars, unmanned aerial vehicles, and most famously, the ARPANET and its successor, the Internet. Other parts of the U.S. Government and some foreign governments have tried to apply the DARPA model to help develop valuable new technologies. But how and why has DARPA succeeded? Which features of its operation and environment contribute to this success? And what lessons does its experience offer for other U.S. agencies and other governments that want to develop and demonstrate their own transformative technologies? This book is a remarkable collection of leading academic research on DARPA from a wide range of perspectives combining to chart an important story from the Agency's founding in the wake of Sputnik to the current attempts to adapt it to use by other federal agencies.

Informative and insightful, this guide is essential reading for political and policy leaders as well as researchers and students interested in understanding the success of this agency and the lessons it offers to others.

Overpowered Martin Blank, PhD, 2014-09-16

Keys wallet cell phone ready to go. Cell phones have become ubiquitous fixtures of twenty-first century life suctioned to our ears and stuck in our pockets. Yet we've all heard whispers that these essential little devices give you brain cancer. Many of us are left wondering as Maureen Dowd recently asked in the *New York Times*: Are cells the new cigarettes?

Overpowered brings readers in accessible and fascinating prose through the science indicating biological effects resulting from low non-thermal levels of non-ionizing electromagnetic radiation levels considered safe by regulatory agencies coming not only from cell phones but many other devices we use in our homes and offices every day. Dr. Blank arms us with the information we need to lobby government and industry to keep ourselves and our families safe.

Law, Death, and Robots Keri Grieman, 2024-10-17

Can the law keep up with AI? This book examines liability and regulation for artificial intelligence causing serious physical harm both now and in the future. While AI moves quickly, regulation follows more slowly, an increasing problem for an evolutionary fast-paced emerging technology. AI has the potential to save lives but in doing so will have the potential to take them as well. How do we future-proof law and regulation to incentivize life-saving innovation as safely as possible? This book details how to regulate AI in high-risk civil applications, for example, automated vehicles and medicine, addressing both liability and regulatory structure. It highlights crucial liability themes for technology governance, provides tools to bridge the gap between regulators and technologists, examines jurisdictional approaches to AI regulation in the EU, UK, USA, and Singapore, and ultimately suggests a jurisdiction-agnostic blueprint for regulation.

Selected Water

Resources Abstracts ,1977 **Creativity in Intelligent Technologies and Data Science** Alla Kravets,Maxim Shcherbakov,Marina Kultsova,Olga Shabalina,2015-09-11 This book constitutes the refereed proceedings of the First Conference on Creativity in Intelligent Technologies and Data Science CIT knowledge discovery in patent and open sources for creative tasks software computer aided design and agent based systems conceptual cognitive and qualitative modeling with application in intelligent decision making design creativity in CAD CAM CAE PDM intelligent decision support for continual improvement process data science in energy management transportation and urban development data science in social networks analysis natural language and image processing and analysis game based learning technologies in engineering education and educational games design personalized learning in Web based intelligent educational systems e inclusion development of smart mobile applications for people with disabilities **Algebraic $\overline{\mathbb{Q}}$ -Groups as Abstract Groups** Olivier Frécon,2018-10-03 The author analyzes the abstract structure of algebraic groups over an algebraically closed field F of characteristic zero and a given connected affine algebraic \mathbb{Q} group the main theorem describes all the affine algebraic \mathbb{Q} groups such that the groups G and H are isomorphic as abstract groups In the same time it is shown that for any two connected algebraic \mathbb{Q} groups G and H the elementary equivalence of the pure groups G and H implies that they are abstractly isomorphic In the final section the author applies his results to characterize the connected algebraic groups all of whose abstract automorphisms are standard when F is either \mathbb{Q} or of positive characteristic In characteristic zero a fairly general criterion is exhibited

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