

PHYSICAL SCIENCES P.2

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basic education

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Basic Education
REPUBLIC OF SOUTH AFRICA

G.12

**NATIONAL
SENIOR CERTIFICATE**

Diagram on page 9 is redrawn below for easy reference.



Changes to the conditions of equilibrium are made at different times. The graph shows the results obtained. X, Y and Z represent the gases in the above reaction.



4.5 Write down the TYPE of elimination in reaction III.

4.6 Compounds R and T are positional isomers.

The inorganic reagents shown below are available for reactions IV and V.

Br ₂	H ₂ SO ₄ (conc.)	NaOH(aq.)	HBr	H ₂
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4.7 Define for both chemical equilibrium.

Use the graph to answer the questions below.

2014 Pat Memorandum Phase 2

Patrick Phillips-Schrock



2014 Pat Memorandum Phase 2:

Computer Vision -- ECCV 2014 David Fleet, Tomas Pajdla, Bernt Schiele, Tinne Tuytelaars, 2014-08-14 The seven volume set comprising LNCS volumes 8689 8695 constitutes the refereed proceedings of the 13th European Conference on Computer Vision ECCV 2014 held in Zurich Switzerland in September 2014 The 363 revised papers presented were carefully reviewed and selected from 1444 submissions The papers are organized in topical sections on tracking and activity recognition recognition learning and inference structure from motion and feature matching computational photography and low level vision vision segmentation and saliency context and 3D scenes motion and 3D scene analysis and poster sessions

The Nixon White House Redecoration and Acquisition Program Patrick Phillips-Schrock, 2016-06-21 A positive legacy of the troubled Nixon administration and one virtually unknown to the American public is the extensive acquisition of valuable art and antiques for the White House and the redecoration of the executive mansion by Pat Nixon With the help of an aggressive curator Clement Conger and a talented interior designer Edward Vason Jones the First Lady quietly erased much of the historic decor of Jacqueline Kennedy s Camelot and introduced an academic look to the State Rooms which endures to this day Nixon marked his presidential territory with a complete renovation of the West Wing a harbinger of the First Lady s plans They implemented a massive fundraising campaign to bankroll the refurbishment which resulted in one of the foremost collections of art art objects furniture paintings and sculpture in America This book presents the never before told story of the Nixons remodeling of the White House motivated by the approaching American Bicentennial and a desire to restore respect to the presidency through the arts

Pat and Dick Will Swift, 2014-01-07 A study of the partnership between the thirty seventh President and his wife argues that the couple endured political and intimate disappointments during their fifty three year marriage but ultimately shared genuine affection

Drafting Technology Patent License Agreements

Michael J. Lennon, 2007-01-01 In todayand s fast paced and ultra competitive high tech environment an effectively managed patent licensing program is a must The Second Editio n of Drafting Technology Patent License Agreements shows you how to achieve one This valuable resource covers all of the legal and business transactional issues you are likely to encounter during the drafting and negotiation of patent licensing agreements It guides you step by step through the unique aspects of the implementation of a patent licensing program for computers electronics telecommunications and other industries and it clarifies the issues involved in the enforcement and litigation of these patents Youand ll find incisive legal analysis on complex issues including How to implement an aggressive and well managed patent licensing program How to evaluate a patent or portfolio for licensing How to identify industry segments and select potential licensees How to discuss terms with industry targets How to formulate an effective licensing strategy How to use databases effectively in patent practice How to organize a licensing team How to file a patent infringement lawsuit And many more critical issues like these Included with this key resource are 40 time saving forms on the bonus CD ROM Forms for establishing a new technology company using

patented technology Confidentiality agreements for a third party vendor third party evaluation or consultant A projected royalty stream analysis A semiconductor technology cross licensing agreement Software technology license agreements Model licensing and patent agreements for the telecommunications industry And many more Panguru and the City: Kāinga Tahī, Kāinga Rua Melissa Matutina Williams, 2016-03-09 Travelling from Hokianga to Auckland in the middle decades of the twentieth century the people of Panguru established themselves in the workplaces suburbs churches and schools of the city Melissa Matutina Williams writes from the heart of these communities The daughter of a Panguru family growing up in Auckland she writes a perceptive account of urban migration through the stories of the Panguru migrants Through these vibrant oral narratives the history of M ōri migration is relocated to the tribal and whānau context in which it occurred For the people of Panguru migration was seldom viewed as a one way journey of new beginnings it was experienced as a lifelong process of developing a coexistent home place for themselves and future generations Dreams of a brighter future drew on the cultural foundations of a tribal homeland and past Panguru and the City K inga Tahī K inga Rua traces their negotiations with people and places from Auckland s inner city boarding houses places of worship and dance halls to workplaces and Māori Affairs homes in the suburbs It is a history that will resonate with M ōri from all tribal areas who shared in the quiet task of working against state policies of assimilation the economic challenges of the 1970s and neoliberal policies of the 1980s in order to develop dynamic M ōri community sites and networks which often remained invisible in the cities of Aotearoa New Zealand **American Governor** Matt Katz, 2016-01-19 The ultimate insider to Chris Christie s 2016 presidential campaign delivers a definitive biography of the popular and controversial governor of New Jersey including the true story behind the Bridgegate lane closure scandal Journalist Matt Katz has been covering Christie since 2011 and has seen firsthand how the governor appeals to the public through his tactics rhetoric and personality In American Governor Katz weaves a compelling on the ground political narrative that begins with the roots of his family s journey to America and takes us through his upset victory over Governor Jon Corzine and then along the road to his announcement of his candidacy for the highest office in the country Packed with exclusive information interviews and anecdotes American Governor illustrates how Christie evolved from an unpopular perennial candidate running for local office to the most watched Republican in the country a populist with leadership skills charm and luck seemingly unparalleled by any other up and coming politician Christie has proven himself a dynamic force of nature by emerging wounded but not unbowed after Bridgegate a scandal that would have destroyed another politician s rising star A political biography by an inside source who s been on the Chris Christie beat longer than any reporter in New Jersey American Governor is a thrilling and absorbing look at the modern making of a man and a politician The History of the Study of Landforms or the Development of Geomorphology, Volume 5 T.P. Burt, A.S. Goudie, H.A. Viles, 2022-10-20 Co published with British Society for Geomorphology This volume is the fifth in the definitive series The History of the Study of Landforms or the Development of Geomorphology Volume 1 1964 dealt with

contributions to the field up to 1890 Volume 2 1973 with the concepts and contributions of William Morris Davis and Volume 3 1991 covered historical and regional themes during the classic period of geomorphology 1890 1950 Volume 4 2008 concentrated on studies of geomorphological processes and Quaternary geomorphology between 1890 and 1965 by the end of this period process based studies had become dominant Volume 5 builds on this platform covering in detail the revolutionary changes in approach that characterized the study of geomorphology in the second half of the twentieth century It is divided into three sections the first deals with changes in approach and method the second with changes in ideas and the broader scientific context within which geomorphology is studied and the final section details advances in research on processes and landforms The volume s objective is to describe and analyse many of the developments that provide a foundation for the rich and varied subject matter of twenty first century geomorphology **Scientific and Technical Aerospace Reports** ,1978 *Considering Marijuana Legalization* Jonathan P. Caulkins,Beau Kilmer,Mark Kleiman,Robert J. MacCoun,Gregory Midgette,Pat Oglesby,Rosalie Liccardo Pacula,Peter H. Reuter,2015-01-16 Marijuana legalization is a controversial and multifaceted issue that is now the subject of serious debate In May 2014 Vermont Governor Peter Shumlin signed a bill requiring the Secretary of Administration to produce a report about various consequences of legalizing marijuana This resulting report provides a foundation for thinking about the various consequences of different policy options while being explicit about the uncertainties involved Congressional Record United States. Congress,1996

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