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PHYSICAL SCIENCES PAPER 2 (CHEMISTRY)

GRADE 12

TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2021



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2014 Physical Science Pmemorandum November Grade 12

Sara Ann Wylie

2014 Physical Science Pmemorandum November Grade 12:

Knowledge Discovery in Big Data from Astronomy and Earth Observation Petr Skoda,Fathalrahman Adam,2020-04-09 Knowledge Discovery in Big Data from Astronomy and Earth Observation Astrogeoinformatics bridges the gap between astronomy and geoscience in the context of applications techniques and key principles of big data Machine learning and parallel computing are increasingly becoming cross disciplinary as the phenomena of Big Data is becoming common place This book provides insight into the common workflows and data science tools used for big data in astronomy and geoscience After establishing similarity in data gathering pre processing and handling the data science aspects are illustrated in the context of both fields Software hardware and algorithms of big data are addressed Finally the book offers insight into the emerging science which combines data and expertise from both fields in studying the effect of cosmos on the earth and its inhabitants

Transactions on Computational Science XXIX Marina L. Gavrilova,C.J. Kenneth Tan,2017-03-11 This the 29th issue of the Transactions on Computational Science journal is comprised of seven full papers focusing on the area of secure communication Topics covered include weak radio signals efficient circuits multiple antenna sensing techniques modes of inter computer communication and fault types geometric meshes and big data processing in distributed environments

Breaking Point Rebecca Schwartz Greene,2023-01-03 WINNER SOCIETY FOR MILITARY HISTORY DISTINGUISHED BOOK AWARDS FIRST BOOK This book informs the public for the first time about the impact of American psychiatry on soldiers during World War II Breaking Point is the first in depth history of American psychiatry in World War II Drawn from unpublished primary documents oral histories and the author s personal interviews and correspondence over years with key psychiatric and military policymakers it begins with Franklin Roosevelt s endorsement of a universal Selective Service psychiatric examination followed by Army and Navy pre and post induction examinations Ultimately 2 5 million men and women were rejected or discharged from military service on neuropsychiatric grounds Never before or since has the United States engaged in such a program In designing Selective Service Medical Circular No 1 psychiatrist Harry Stack Sullivan assumed psychiatrists could predict who might break down or falter in military service or even in civilian life thereafter While many American and European psychiatrists questioned this belief and huge numbers of American psychiatric casualties soon raised questions about screening s validity psychiatric and military leaders persisted in 1942 and 1943 in endorsing ever tougher screening and little else Soon families complained of fathers and teens being drafted instead of being identified as psychiatric 4Fs and Blacks and Native Americans among others complained of bias A frustrated General George S Patton famously slapped two malingering neuropsychiatric patients in Sicily a sentiment shared by Marshall and Eisenhower though they favored a tamer style Yet psychiatric rejections evacuations and discharges mounted While psychiatrist Roy Grinker and a few others treated soldiers close to the front in Tunisia in early 1943 this was the exception But as demand for manpower soared and psychiatrists finally went to the field and saw that combat itself not predisposition

precipitated breakdown leading military psychiatrists switched their emphasis from screening to prevention and treatment But this switch was too little too late and slowed by a year long series of Inspector General investigations even while numbers of psychiatric casualties soared Ironically despite and even partly because of psychiatrists wartime performance plus the emotional toll of war postwar America soon witnessed a dramatic growth in numbers popularity and influence of the profession culminating in the National Mental Health Act 1946 But veterans with PTSD not recognized until 1980 were largely neglected

Where Have All the Democrats Gone? Ruy Teixeira, John B. Judis, 2023-11-07 A Wall Street Journal Best Political Book of 2023 A much needed wake up call for the Democrats which reveals how the party has lost sight of its core principles and endangered its political future from the authors of one of the most influential political books of the 21st century The New York Times For decades American politics has been plagued by a breakdown between the Democratic and Republican parties in which victory has inevitably led to defeat and vice versa Both parties have lost sight of the people at the center of the American electorate leading to polarization and paralysis In Where Have All the Democrats Gone John B Judis and Ruy Teixeira reveal the tectonic changes shaping the country's current political landscape that both pundits and political scientists have missed The Democratic Party once the preserve of small towns as well as big cities and of the industrial working class and the newly immigrated has abandoned and even actively alienated many of these voters In this clarion call and essential argument for common sense and common ground Judis and Teixeira reveal the transformation of American politics and provide a razor sharp critique of where the Democrats have gone awry and how they can avoid political disaster in the days ahead

Gender and Climate Change Joane Nagel, 2025-08-05 Does gender matter in global climate change This timely and provocative book takes readers on a guided tour of basic climate science then holds up a gender lens to find out what has been overlooked in popular discussion research and policy debates We see that around the world more women than men die in climate related natural disasters the history of science and war are intimately interwoven masculine occupations and preoccupations and conservative men and their interests drive the climate change denial machine We also see that climate policymakers who embrace big science approaches and solutions to climate change are predominantly male with an ideology of perpetual economic growth and an agenda that marginalizes the interests of women and developing economies The book uses vivid case studies to highlight the often surprising gendered impacts of climate changes This new edition is a thorough update that includes revised and new chapters and new material that takes account of the significant advances in climate research environmental and social theory and the many political and social challenges posed in the wake of US elections Covid 19 pandemic and rapidly changing climate and environment The new edition also takes account of important social and cultural movements that resist challenges to women's rights and advocate for gender sexuality and racial justice This book will appeal to students researchers and academicians interested in environmental studies and gender studies It also will be of interest to policymakers activists and others involved with environmental policy and governance

Fractivism Sara Ann Wylie, 2018-01-25 From flammable tap water and sick livestock to the recent onset of hundreds of earthquakes in Oklahoma the impact of fracking in the United States is far reaching and deeply felt In Fractivism Sara Ann Wylie traces the history of fracking and the ways scientists and everyday people are coming together to hold accountable an industry that has managed to evade regulation Beginning her story in Colorado Wylie shows how nonprofits landowners and community organizers are creating novel digital platforms and databases to track unconventional oil and gas well development and document fracking's environmental and human health impacts These platforms model alternative approaches for academic and grassroots engagement with the government and the fossil fuel industry A call to action Fractivism outlines a way forward for not just the fifteen million Americans who live within a mile of an unconventional oil or gas well but for the planet as a whole **Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971** New York Public Library. Research Libraries, 1979

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