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GRADE/GRAAD 12

**PHYSICAL SCIENCES: CHEMISTRY (P2)
FISIESE WETENSKAPPE: CHEMIE (V2)**

FEBRUARY/MARCH 2015/FEBRUARIE/MAART 2015

MEMORANDUM

MARKS/PUNTE: 150

**This memorandum consists of 15 pages.
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A History of Scientific Journals Aileen Fyfe, Noah Moxham, Julie McDougall-Waters, Camilla Mørk Røstvik, 2022-10-03
Modern scientific research has changed so much since Isaac Newton's day it is more professional collaborative and international with more complicated equipment and a more diverse community of researchers Yet the use of scientific journals to report share and store results is a thread that runs through the history of science from Newton's day to ours Scientific journals are now central to academic research and careers Their editorial and peer review processes act as a check on new claims and findings and researchers build their careers on the list of journal articles they have published The journal that reported Newton's optical experiments still exists First published in 1665 and now fully digital the Philosophical Transactions has carried papers by Charles Darwin Dorothy Hodgkin and Stephen Hawking It is now one of eleven journals published by the Royal Society of London Unrivalled insights from the Royal Society's comprehensive archives have enabled the authors to investigate more than 350 years of scientific journal publishing The editorial management business practices and financial difficulties of the Philosophical Transactions and its sibling Proceedings reveal the meaning and purpose of journals in a changing scientific community At a time when we are surrounded by calls to reform the academic publishing system it has never been more urgent that we understand its history

Sustainability in the Gulf Elie Azar, Mohamed Abdel Raouf, 2017-07-31 Sustainability is a topic of great interest today particularly for the Gulf Cooperation Council GCC countries which have witnessed very rapid economic and demographic growth over the past decade The observed growth has led to unsustainable consumption patterns of vital resources such as water energy and food highlighting the need for an urgent shift towards green growth and sustainable development strategies Sustainability in the Gulf covers the region's contemporary development challenges through the lens of the UN's Sustainable Development Goals SDGs which place sustainability at the centre of the solution to the current environmental economic and social imbalances facing GCC countries The book presents multiple analyses of Gulf specific sustainability topics examining the current status challenges and opportunities as well as identifying key lessons learned Innovative and practical policy recommendations are provided as well as new conceptual angles to the evolving academic debates on the post oil era in the Gulf Through chapters covering sector related studies as well as the socio economic dimensions of the sustainability paradigm this volume offers valuable insights into current research efforts made by the GCC states proposing a way forward based on lessons learned This is a valuable resource for students academics and researchers in the areas of Environmental Studies Political Economy and Economics of the GCC states

The Growing Threat to Air Force Mission-Critical Electronics National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Intelligence Community Studies Board, Air Force Studies Board, Committee on a Strategy for Acquiring Secure and Reliable Electronic Components for Air Force Weapon Systems, 2019-08-09 High performance electronics are key to the U S Air Force's USAF's ability to deliver lethal effects at the

time and location of their choosing Additionally these electronic systems must be able to withstand not only the rigors of the battlefield but be able to perform the needed mission while under cyber and electronic warfare EW attack This requires a high degree of assurance that they are both physically reliable and resistant to adversary actions throughout their life cycle from design to sustainment In 2016 the National Academies of Sciences Engineering and Medicine convened a workshop titled Optimizing the Air Force Acquisition Strategy of Secure and Reliable Electronic Components and released a summary of the workshop This publication serves as a follow on to provide recommendations to the USAF acquisition community

Governing Medical Knowledge Commons Brett M. Frischmann, Katherine J. Strandburg, Michael J.

Madison, 2017-10-19 This book collects fifteen new case studies documenting successful knowledge and information sharing commons institutions for medical and health sciences innovation Also available as Open Access **Current Catalog**

National Library of Medicine (U.S.), 1970 First multi year cumulation covers six years 1965 70 Spy Schools Daniel

Golden, 2024-08-06 An expos revealing how academia has become the center of foreign and domestic espionage and why that is troubling news for our nation's security Grounded in extensive research and reporting Pulitzer Prize winning journalist Daniel Golden's Spy Schools reveals how academia has emerged as a frontline in the global spy game In a knowledge based economy universities are repositories of valuable information and research where brilliant minds of all nationalities mingle freely with few questions asked Intelligence agencies have always recruited bright undergraduates but now in an era when espionage increasingly requires specialized scientific or technological expertise they're wooing higher level academics not just as analysts but also for clandestine operations Golden uncovers unbelievable campus activity from the CIA placing agents undercover in Harvard Kennedy School classes and staging academic conferences to persuade Iranian nuclear scientists to defect to a Chinese graduate student at Duke University stealing research for an invisibility cloak and a tiny liberal arts college in Marietta Ohio exchanging faculty with China's most notorious spy school He shows how relentlessly and ruthlessly this practice has permeated our culture not just inside the US but internationally as well Golden blows the lid off this secret culture of espionage and its consequences at home and abroad Whether you are a teacher student or parent Daniel Golden's closely researched account of the assault on our academic freedoms by home grown intelligence services is timely and shocking John le Carr It's real life Spy vs Spy a fascinating book Washington Post **Experimental Wireless &**

The Wireless Engineer, 1945 Road Vehicle Automation 4 Gereon Meyer, Sven Beiker, 2017-06-28 This book is the fourth volume of the sub series of the Lecture Notes in Mobility dedicated to Road Vehicle Automation Its chapters have been written by researchers engineers and analysts from all around the globe Topics covered include public sector activities human factors and challenges ethical legal energy and technology perspectives vehicle systems development as well as transportation infrastructure and planning The book is based on the Automated Vehicles Symposium which took place in San Francisco California USA in July 2016 Petroleum and Public Safety James B. McSwain, 2018-07-06 Throughout the

twentieth century cities such as Houston Galveston New Orleans and Mobile grappled with the safety hazards created by oil and gas industries as well as the role municipal governments should play in protecting the public from these threats James B McSwain's *Petroleum and Public Safety* reveals how officials in these cities created standards based on technical scientific and engineering knowledge to devise politically workable ordinances related to the storage and handling of fuel Each of the cities studied in this volume struggled through protracted debates regarding the regulation of crude petroleum and fuel oil sparked by the famous Spindletop strike of 1901 and the regional oil boom in the decades that followed Municipal governments sought to ensure the safety of their citizens while still reaping lucrative economic benefits from local petroleum industry activities Drawing on historical antecedents such as fire protection engineering the cities of the Gulf South came to adopt voluntary consensual fire codes issued by insurance associations and standards organizations such as the National Board of Fire Underwriters the National Fire Protection Association and the Southern Standard Building Code Conference The culmination of such efforts was the creation of the International Fire Code an overarching fire protection guide that is widely used in the United States Mexico the Caribbean and Central America In devising ordinances Gulf South officials pursued the politics of risk management as they hammered out strategies to eliminate or mitigate the dangers associated with petroleum industries and to reduce the possible consequences of catastrophic oil explosions and fires Using an array of original sources including newspapers municipal records fire insurance documents and risk management literature McSwain demonstrates that Gulf South cities played a vital role in twentieth century modernization

Purdue's Female Founders
Angie Klink, 2025-10-01

Purdue's Female Founders: The Untold History of Trailblazing Women Faculty chronicles and celebrates the fortitude and achievements of the foremothers of Purdue University This engaging book offers a collection of profiles of women faculty who despite profound roadblocks because of their gender shaped the institution from its beginning in the late 1800s through the latter half of the twentieth century These are the stories of Purdue women who persevered against the odds to follow their dreams to conduct research and teach establish departments schools and colleges and blaze paths in a male dominated culture Readers will learn about women who faced discrimination but persisted and thrived despite prejudice These compelling profiles celebrate women in art science nutrition literature nursing speech engineering fashion design home economics family life psychology agriculture health and kinesiology business and more Covering 125 years of university history told through the female lens this book rightfully honors the many women who helped shape Purdue

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web e p range ra microinch uk ra micron rmax microinch japan rmax micron approx rms microinch iso no astm std ra

microinch japanese standard 2000 50 7875 200 n12 1000 25 3940 100 n11 500 12 5 1968 50 n10 60 1 mill plate 250 50 max 8 3 985 25 n9 140 max 125 3 2 492 12 5 n8 80 2 satin sheet 70 max 80 40 60 63 1 6 6 3 n7

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web rz it is based on 10 points within one sampling length mean distance between 5 highest peaks 5 lowest valleys within the sampling length measured perpendicular to the baseline of the chart ra roughness average or cla centre line average correlation between roughness average ra and total roughness rt

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web jan 14 2020 1 2k views 3 years ago roughness ra vs rz roughness since there is no mathematical relationship between rmax and ra and rz and ra an often necessary assignment of ra to rz and

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web feb 3 2009 i always receive the surface roughness measurement in rmax but our company use ra method are there any conversion factor to convert rmax to ra or vice versa i find all the handbooks in our library but no answer

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web apr 25 2017 while ra smooths all measurements into one average and rz averages only the greatest deviations there isn't just one simple way to derive ra from rz rather general estimates are applied often assuming that the ra value will be 1/4 to 1/9 of the rz value

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web roughness conversion chart 1 0 roughness is measured in a trasversal direction to the main grooves the mean arithmetical value ra in μm is assumed for roughness measurements rt maximum value of roughness from the lowest to the highest point rz average roughness in 10 points

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web pt rmax at jis 82 sum of height of the largest profile peak height rp and the largest profile valley rv within an evaluation length rt pt wt max rpi max rvi rzjis ten point height of roughness profile rz at jis 94 sum of mean value of largest peak to the fifth largest peak and mean value of largest valley to

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web usage note a direct allocation of an rz value to a roughness grade is not possible due to the conversion interval in this rz

ra calculator the input rz value is first converted to the average value of the ra interval and the n class is determined based on this value

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web rmax vertical distance from highest peak to lowest valley rmax is particularly sensitive to anomalies such as scratches and burrs that may not be obvious from measures such as ra that rely on averages rz preferred by many europeans rz is often preferred to ra in europe and particularly germany

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web r z m i n 3 8 r a 0 9 5 r z m a x 1 4 5 r a 0 7 5 converting between ra and rz is not a good engineering practice it is always recommended to measure according to the method in which surface roughness is indicated on the drawing as you can see in the below graphs the inaccuracy grows in higher r a r z values

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web oct 22 2021 a rz din ra 7 2 rz iso ra 7 6 ra rz din 7 2 ra rz iso 7 6 san last name deleted for privacy by editor shanghai china publicly reply to san s post q convert rz value to ra

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web surface finish calculator calculate turning surface finish based on corner radius and feedrate input cutting conditions unit selector imperial metric corner radius r inch mm 0 030 feedrate f ipr or mm rev 0 0080 results surface finish ra microns ra micro inches n iso n number of triangles rms cla feedrate

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web mean roughness the mean roughness roughness average ra is the arithmetic average of the absolute values of the roughness profile ordinates ra is one of the most effective surface roughness measures commonly adopted in general engineering practice

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web nov 11 2021 surface finish conversion chart in this section there s a table for the surface finish conversion chart this table compares the different surface roughness scales for manufacturing processes meanwhile let s go through some of the abbreviations you ll find there ra roughness average rms root mean square cla center line

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web ra roughness average in micrometers or microinches rms root mean square in microinches cla center line average in microinches rt roughness total in microns n new iso grade scale numbers cut off length length required for sample

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web conversions math cla micro inches multiply ra $\mu\text{m} \times 40$ r t r a x 8 7 r z r a x 7 2 r z iso r a x 7 6 r max r a x 8 0 r p r a x 3

6 rpm $r_a \times 2.9$ rms $r_a \times 1.1$ example r_a to r_t 10 micrometer $r_a \times 8.7$ r_t factor 8.7 micrometer r_t 40 microinch $r_a \times 8.7$ r_t factor 348 microinch r_t

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web jul 25 2007 in what conditions we use r_{max} welcome to the cove average roughness r_a the average height of the bumps on a surface measured in micrometres or microinches r_t is the difference between the highest peak and the lowest valley r_{max} is the highest peak

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web may 1 2016 it is important to note that using conversion factors to calculate between r_a and r_z is not a good idea it is best to establish what figure for surface roughness the designer customer has specified and measure this

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