

**EXAMINATION DATA SHEET FOR THE PHYSICAL SCIENCES
(CHEMISTRY)**

TABLE 1 PHYSICAL CONSTANTS

NAME	SYMBOL	VALUE
Magnitude of charge on electron	e	$1,6 \times 10^{-19} \text{ C}$
Mass of an electron	m_e	$9,1 \times 10^{-31} \text{ kg}$
Standard pressure	p°	$1,01 \times 10^5 \text{ Pa}$
Molar gas volume at STP	V_m	$22,4 \text{ dm}^3 \cdot \text{mol}^{-1}$
Standard temperature	T°	273 K
Avogadro's constant	N_A	$6,02 \times 10^{23} \text{ mol}^{-1}$
Faraday's constant	F	$96\,500 \text{ C} \cdot \text{mol}^{-1}$

TABLE 2 CHEMISTRY FORMULAE

$n = \frac{m}{M}$	$n = \frac{N}{N_A}$	$n = \frac{V}{V_m}$
$c = \frac{n}{V}$ OR $c = \frac{m}{MV}$	$K_w = [\text{H}_3\text{O}^+] \cdot [\text{OH}^-] = 1 \times 10^{-14}$ at 25 °C (298 K)	
$q = It$ $q = nF$	$E_{\text{cell}}^\circ = E_{\text{cathode}}^\circ - E_{\text{anode}}^\circ$ $E_{\text{cell}}^\circ = E_{\text{oxidising agent}}^\circ - E_{\text{reducing agent}}^\circ$	

Ieb Physical Science Exam Papers

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underlying physical fundamentals It focuses on conveying a basic understanding of the physics materials and processes involved in semiconductor technology without relying on detailed derivations The book features separate comments on the key physical principles covered allowing the reader to quickly grasp the take home message Chapter end questions and answers round out this compact book making it a helpful and dependable resource for physicists electrical engineers and materials scientists working with electronic materials Aimed at upper level undergraduate students and written by an author with extensive experience in both industry and academia this textbook gives physicists the opportunity to learn about the materials and technology behind semiconductors while providing engineers and materials scientists a deeper understanding of the physics behind the technology

International Science Between the World Wars N. L. Kremenčuk, 2005 This book addresses the function of international science through a detailed study of international congresses in genetics held from 1899-1939

Rockefeller and the Internationalization of Mathematics Between the Two World Wars Reinhard Siegmund-Schultze, 2012-12-06 Philanthropies funded by the Rockefeller family have been prominent in the social history of the twentieth century for their involvement in medicine and applied science This book provides the first detailed study of their relatively brief but nonetheless influential foray into the field of mathematics The careers of a generation of pathbreakers in modern mathematics such as S Banach B L van der Waerden and Andr Weil were decisively affected by their becoming fellows of the Rockefeller funded International Education Board in the 1920s To help promote cooperation between physics and mathematics Rockefeller funds supported the erection of the new Mathematical Institute in Göttingen between 1926 and 1929 while the rise of probability and mathematical statistics owes much to the creation of the Institut Henri Poincaré in Paris by American philanthropy at about the same time This account draws upon the documented evaluation processes behind these personal and institutional involvements of philanthropies It not only sheds light on important events in the history of mathematics and physics of the 20th century but also analyzes the comparative developments of mathematics in Europe and the United States Several of the documents are given in their entirety as significant witnesses to the gradual shift of the centre of world mathematics to the USA This shift was strengthened by the Nazi purge of German and European mathematics after 1933 to which the Rockefeller Foundation reacted with emergency programs that subsequently contributed to the American war effort The general historical and political background of the events discussed in this book is the mixture of competition and cooperation between the various European countries and the USA after World War I and the consequences of the Nazi dictatorship after 1933 Ideological positions of both the philanthropists and mathematicians mattered heavily in that process Cultural bias in the selection of fellows and of disciplines supported and the economic predominance of American philanthropy led among other things to a restriction of the programs to Europe and America to an uneven consideration of European candidates and to preferences for Americans Political self isolation of the Soviet Union contributed to an increasing alienation of that important mathematical culture from Western mathematics By focussing on a

number of national cultures the investigation aims to represent a step toward a true inter cultural comparison in mathematics

A History of Biophysics in Contemporary China Christine Yi Lai Luk, 2015-05-06 This book gives a concise history of biophysics in contemporary China from about 1949 to 1976 It outlines how a science specialty evolved from an ambiguous and amorphous field into a fully fledged academic discipline in the socio institutional contexts of contemporary China The book relates how while initially consisting of cell biologists the Chinese biophysics community redirected their disciplinary priorities toward rocket science in the late 1950s to accommodate the national interests of the time Biophysicists who had worked on biological sounding rockets were drawn to the military sector and continued to contribute to human spaceflight in post Mao China Besides the rocket and space missions which provided the material context for biophysics to expand in the late 1950s and early 1960s Chinese biophysicists also created research and educational programs surrounding biophysics by exploiting the institutional opportunities afforded by the policy emphasis on science s role to drive modernization The book explores and demonstrates the collective achievements and struggles of Chinese biophysicists in building their scientific discipline

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The Circulation of science and technology Institut d'Estudis Catalans, Societat Catalana d'Història de la Ciència i de la Tècnica, 2012-04-27

Soviet Physics ,1971

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