

5. Carbonyl chloride, COCl_2 , is a colourless gas. It is made by the following reaction.



- (a) When the pressure on the equilibrium mixture is decreased, the position of equilibrium moves to left.
- (i) How does the concentration of each of the three chemicals change?
- _____
- _____ [2]
- (ii) Explain why the position of equilibrium moves to left.
- _____
- _____ [2]
- (b) Using the information given with the equation, is the forward reaction exothermic or endothermic? Give a reason for your choice.
- _____
- _____ [2]
- (c) Carbonyl chloride reacts with water to form two acidic compounds. Suggest which acidic compounds are formed.
1. _____
2. _____ [2]
- (d) The structural formula of carbonyl chloride is given below.



Draw a diagram that shows the arrangement of the valency electrons in one molecule of this covalent compound.

Use x for an electron from a chlorine atom.

Use o for an electron from a carbon atom.

Use • for an electron from an oxygen atom.

[4]
[Total: 12]

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Wolfgang Guggemos

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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Metals Abstracts ,1998-04 *Official Airline Guide* ,1993-07 **Minutes and Votes and Proceedings of the Parliament, with Papers Presented to Both Houses** Western Australia. Parliament,1974 **U.S. Geological Survey Bulletin** ,1983 **European Rail Timetable** ,2010-02 *Thomas Cook European Timetable* ,1993-07 **The Versatility of Integrability** Mikhail Bershtein,Anton Dzhamay,Andrei Okounkov,2025-08-06 This volume contains the proceedings of IDPEIS 22 Isomonodromic Deformations Painlevé Equations and Integrable Systems held virtually June 27 July 1 2022 hosted by Columbia University and AGMPS 22 Algebraic Geometry Mathematical Physics and Solitons held October 7 9 2022 at Columbia University New York NY This volume is dedicated to the legacy of Igor Krichever and the papers in it are closely connected to the main themes of Igor's research interests The range of topics in this volume is very broad The paper by Bobenko Bobenko and Suris generalizes Krichever's approach to algebro geometric integrability to the dimer models The paper by R. H. R. and Zakharov considers a tropical version of classical algebro geometric objects such as the Prym variety The papers by Grekov and Nekrasov and by Felder Smirnov Tarasov and Varchenko study quantum integrable systems from the point of view of 3D mirror symmetry and gauge theories The paper by Etingof and Varchenko studies properties of certain families of flat connections and the paper by Yamada describes a Lax form of a quantum q Painlevé equation The paper by Cherednik belongs to the area of combinatorial probability and the paper by Braverman and Kazhdan to the geometric Langlands program The two remaining papers are in the area of applied mathematics The paper by de Leon Frauendiener and Klein considers the computational approach to the Schotky problem The paper by Blackstone Gassot and Miller studies soliton ensembles for the Benjamin-Ono equation Analysis of Agricultural Policies in Argentina 2007-2016 Daniel Lema,Marcos Gallacher,Juan José Egas Yerovi,Carmine Paolo De Salvo,2018-12-15 This report analyzes agricultural policy in Argentina in particular with respect to the degree of support producers and consumers receive Available evidence suggests that i as a result of export taxes in most periods domestic agricultural output prices have been lower than international prices ii despite the previous finding Argentine agriculture has shown a remarkable capacity for productivity and output growth and iii since the 2016 crop year significant changes in the agricultural policy environment have taken place The analysis of available data also shows that significant changes are occurring in aspects such as farm size and in the linkages between production input supply and the output processing sector The report also analyzes the support the public sector provided to producers in the form of funding for agricultural research infrastructure and other public good type of investments **Title List of Documents Made Publicly Available** ,1987 **Climate Change, Extreme Events and Disaster Risk Reduction** Suraj Mal,R.B. Singh,Christian Huggel,2017-12-05 This book discusses the science causes impacts and risk reduction strategies for climate change and disasters It focuses on the use of traditional knowledge new innovation and education to build a culture of safety and resilience at all levels in order to promote sustainable development goals in

general and disaster risk reduction in particular The global climate has changed substantially over the last century There is strong evidence of global climate change in the form of increase in air and sea surface temperature recession of glaciers changes and shifting of climate regimes increasing number of extreme events and sea levels changes The increasing frequency of climate change induced disasters in particular is posing a threat to resilience lives and livelihoods at global regional and local levels Major ecosystems of the world have experienced several climate induced disaster events in recent past This book provides new insights into the occurrence and impacts of climatic extremes and strategies for disaster risk reduction It includes studies on rainfall and temperature trends floods and drought disasters weather and climatic related disasters in mountains changes in plant activities risk assessment and responses in different ecosystems of the world The book is particularly useful for environmental and disaster managers researchers and graduate students as well as policy makers

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