

# CHEMISTRY PAPER 1

## (THEORY)

*Maximum Marks: 70*

*Time Allowed: Three Hours*

*(Candidates are allowed additional 15 minutes for only reading the paper.  
They must NOT start writing during this time.)*

*This paper is divided into four sections – A, B, C and D.*

*Answer all questions.*

*Section – A consists of one question having sub-parts of one mark each.*

*Section – B consists of ten questions of two marks each.*

*Section – C consists of seven questions of three marks each, and*

*Section – D consists of three questions of five marks each.*

*Internal choices have been provided in one question each in Section B,*

*Section C and Section D.*

*All working, including rough work, should be done on the same sheet as, and adjacent to the rest of the answer.*

*The intended marks for questions or parts of questions are given in brackets [ ].*

*Balanced equations must be given wherever possible and diagrams where they are helpful.*

*When solving numerical problems, all essential working must be shown.*

*In working out problems, use the following data:*

*Gas constant  $R = 1.987 \text{ cal deg}^{-1} \text{ mol}^{-1} = 8.314 \text{ JK}^{-1} \text{ mol}^{-1} = 0.0821 \text{ dm}^3 \text{ atm K}^{-1} \text{ mol}^{-1}$*

*$1 \text{ l atm} = 1 \text{ dm}^3 \text{ atm} = 101.3 \text{ J}$ .  $1 \text{ Faraday} = 96500 \text{ coulombs}$ .*

*Avogadro's number =  $6.023 \times 10^{23}$ .*

### SECTION A – 14 MARKS

#### Question 1

- (A) Fill in the blanks by choosing the appropriate word(s) from those given in the brackets: [4×1]

[ decreases,  $\text{CN}^-$  ion, activation energy, catalyst, two,  $\text{Fe}^{2+}$  ion, carbon, lattice energy, enzyme, five, double, halogen, triple, increases]

- (i) In the Haber process, iron changes the \_\_\_\_\_ of reaction while molybdenum increases the efficiency of the \_\_\_\_\_.
- (ii) The number of ions that will be produced when potassium ferrocyanide,  $\text{K}_4[\text{Fe}(\text{CN})_6]$ , dissolves in water is \_\_\_\_\_. This shows that \_\_\_\_\_ is the ligand in the coordination compound.

# May June 2013 Chemistry 97paper 4

**Rosalee de la Forêt**



## **May June 2013 Chemistry 97paper 4:**

*Nonlinear Regression Modeling for Engineering Applications* R. Russell Rhinehart, 2016-08-01 Since mathematical models express our understanding of how nature behaves we use them to validate our understanding of the fundamentals about systems which could be processes equipment procedures devices or products Also when validated the model is useful for engineering applications related to diagnosis design and optimization First we postulate a mechanism then derive a model grounded in that mechanistic understanding If the model does not fit the data our understanding of the mechanism was wrong or incomplete Patterns in the residuals can guide model improvement Alternately when the model fits the data our understanding is sufficient and confidently functional for engineering applications This book details methods of nonlinear regression computational algorithms model validation interpretation of residuals and useful experimental design The focus is on practical applications with relevant methods supported by fundamental analysis This book will assist either the academic or industrial practitioner to properly classify the system choose between the various available modeling options and regression objectives design experiments to obtain data capturing critical system behaviors fit the model parameters based on that data and statistically characterize the resulting model The author has used the material in the undergraduate unit operations lab course and in advanced control applications

**Emerging Technologies for STEAM Education** Xun Ge, Dirk Ifenthaler, J. Michael Spector, 2015-09-09 This theory to practice guide offers leading edge ideas for wide scale curriculum reform in sciences technology engineering the arts and mathematics the STEAM subjects Chapters emphasize the critical importance of current and emerging digital technologies in bringing STEM education up to speed and implementing changes to curricula at the classroom level Of particular interest are the diverse ways of integrating the liberal arts into STEM course content in mutually reshaping humanities education and scientific education This framework and its many instructive examples are geared to ensure that both educators and students can become innovative thinkers and effective problem solvers in a knowledge based society Included in the coverage Reconceptualizing a college science learning experience in the new digital era Using mobile devices to support formal informal and semi formal learning Change of attitudes self concept and team dynamics in engineering education The language arts as foundational for science technology engineering art and mathematics Can K 12 math teachers train students to make valid logical reasoning Moving forward with STEAM education research Emerging Technologies for STEAM Education equips educators education researchers administrators and education policymakers with curricular and pedagogical strategies for making STEAM education the bedrock of accessible relevant learning in keeping with today's digital advances

**31st AIAA Plasmadynamics and Lasers Conference**, 2000 **Hydrothermal microbial ecosystems** Andreas Teske, Anna-Louise Reysenbach, 2015-11-24 The papers in the Hydrothermal Vents book cover a range of microbiological research in deep and shallow hydrothermal environments from high temperature black smokers to diffuse flow habitats and episodically discharging subsurface fluids to

the hydrothermal plumes Together they provide a snapshot of current research interests in a field that has evolved rapidly since the discovery of hydrothermal vents in 1977 Hydrothermally influenced microbial habitats and communities represent a wide spectrum of geological setting chemical in situ regimes and biotic communities the classical examples of basalt hosted black smoker chimneys at active mid ocean spreading centers have been augmented by hydrothermally heated and chemically altered sediments microbiota fueled by serpentinization reactions and low temperature vents with unusual menus of electron donors Environmental gradients and niches provide habitats for unusual or unprecedented microorganisms and microbial ecosystems The discovery of novel extremophiles underscores untapped microbial diversity in hydrothermal vent microbial communities Different stages of hydrothermal activity from early onset to peak activity gradual decline and persistence of cold and fossil vent sites correspond to different colonization waves by microorganisms as well as megafauna Perhaps no other field in microbiology is so intertwined with the geological and geochemical evolution of the oceans and promises so many biochemical and physiological discoveries still to be made within the unexhausted richness of extreme microbial life

**Reports from the Director, Division of Chemistry** Canada. Experimental Farms Service,1909 *The Patient Will See You Now* Eric Topol,2016-10-25 The essential guide by one of America s leading doctors to how digital technology enables all of us to take charge of our health A trip to the doctor is almost a guarantee of misery You ll make an appointment months in advance You ll probably wait for several hours until you hear the doctor will see you now but only for fifteen minutes Then you ll wait even longer for lab tests the results of which you ll likely never see unless they indicate further and more invasive tests most of which will probably prove unnecessary much like physicals themselves And your bill will be astronomical In *The Patient Will See You Now* Eric Topol one of the nation s top physicians shows why medicine does not have to be that way Instead you could use your smartphone to get rapid test results from one drop of blood monitor your vital signs both day and night and use an artificially intelligent algorithm to receive a diagnosis without having to see a doctor all at a small fraction of the cost imposed by our modern healthcare system The change is powered by what Topol calls medicine s Gutenberg moment Much as the printing press took learning out of the hands of a priestly class the mobile internet is doing the same for medicine giving us unprecedented control over our healthcare With smartphones in hand we are no longer beholden to an impersonal and paternalistic system in which doctor knows best Medicine has been digitized Topol argues now it will be democratized Computers will replace physicians for many diagnostic tasks citizen science will give rise to citizen medicine and enormous data sets will give us new means to attack conditions that have long been incurable Massive open online medicine where diagnostics are done by Facebook like comparisons of medical profiles will enable real time real world research on massive populations There s no doubt the path forward will be complicated the medical establishment will resist these changes and digitized medicine inevitably raises serious issues surrounding privacy Nevertheless the result better cheaper and more human health care will be worth it Provocative and engrossing *The Patient*

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## **Table of Contents May June 2013 Chemistry 97paper 4**

1. Understanding the eBook May June 2013 Chemistry 97paper 4
  - The Rise of Digital Reading May June 2013 Chemistry 97paper 4
  - Advantages of eBooks Over Traditional Books
2. Identifying May June 2013 Chemistry 97paper 4
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an May June 2013 Chemistry 97paper 4
  - User-Friendly Interface
4. Exploring eBook Recommendations from May June 2013 Chemistry 97paper 4
  - Personalized Recommendations
  - May June 2013 Chemistry 97paper 4 User Reviews and Ratings
  - May June 2013 Chemistry 97paper 4 and Bestseller Lists
5. Accessing May June 2013 Chemistry 97paper 4 Free and Paid eBooks

- May June 2013 Chemistry 97paper 4 Public Domain eBooks
  - May June 2013 Chemistry 97paper 4 eBook Subscription Services
  - May June 2013 Chemistry 97paper 4 Budget-Friendly Options
6. Navigating May June 2013 Chemistry 97paper 4 eBook Formats
- ePub, PDF, MOBI, and More
  - May June 2013 Chemistry 97paper 4 Compatibility with Devices
  - May June 2013 Chemistry 97paper 4 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of May June 2013 Chemistry 97paper 4
  - Highlighting and Note-Taking May June 2013 Chemistry 97paper 4
  - Interactive Elements May June 2013 Chemistry 97paper 4
8. Staying Engaged with May June 2013 Chemistry 97paper 4
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers May June 2013 Chemistry 97paper 4
9. Balancing eBooks and Physical Books May June 2013 Chemistry 97paper 4
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection May June 2013 Chemistry 97paper 4
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine May June 2013 Chemistry 97paper 4
- Setting Reading Goals May June 2013 Chemistry 97paper 4
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of May June 2013 Chemistry 97paper 4
- Fact-Checking eBook Content of May June 2013 Chemistry 97paper 4
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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