

HSC Chemistry Notes - Industrial Chemistry

9.5 - 1. Industrial chemistry processes have enabled scientists to develop replacements for natural products

1. **discuss** the issues associated with shrinking world resources with regard to one identified natural product that is not a fossil fuel, **identifying** the replacement materials used and/or current research in place to find a replacement for the named material.

As the human population grows, there is increasing **demand** on natural resources; yet the supply of raw materials is **finite**. Prolonged overuse of a natural resource leads to **depletion** or even permanent loss of the resource in the future. Recycling is an important response to the problem of shrinking world resources but it cannot solve the problem. The **development of new materials is an important strategy to solve this problem**.

Synthetic Fertilisers (ammonium nitrate):

Because all living things requires nitrogen to provide nutrients to DNA and proteins, it is an essential element of air, water and soil. Nitrogen supplies are particularly important for plants and all agricultural harvests. Plants obtain their nitrogen from the soil by absorbing dissolved ammonium and nitrate ions through their roots.

Early farmers, through experimentation and observations of their crops, discovered that they could not continue to grow and re-use soils concurrently because the plants would absorb most of the ammonium ions and therefore drain the soil of nitrogen. However, the use of clovers and guano were employed by the farmers → which would replenish the nitrogen molecules in the soil. Once reserves of guano had depleted (and because clovers were an ineffective process), deposits of nitrate became available to be used in the development of nitrate rich fertilisers. Of course, however, these reserves of nitrate were finite and were used until the **Haber process** was developed for the artificial synthesis of ammonia.

The Haber process produced ammonia from nitrogen (in the air) and hydrogen (from water or natural gas). This ammonia could be oxidised to produce **nitric acid**.

- **When ammonia reacts with nitric acid, a salt called ammonium nitrate is produced.** This salt was an excellent synthetic fertiliser.



This Haber process for the synthesis of ammonia became essential for the production of synthetic fertilisers when combined with nitric acid. Not only could **NH_4NO_3** be used for the production of fertilisers so that nitrogen could be replenished in the soils - and therefore better crops - but the Haber process was vital to Germany throughout WWII in the production of ammonium nitrate to be used in explosives.

Ongoing research is conducted today by environmental and analytical chemists, to discover methods which will enhance the yield of ammonia from the Haber process (*Refer to Chemical Monitoring & Management*), however data is already determined to achieve such results from a revolutionary process.

1. **Identify data, gather and process information to identify and discuss the issues associated with the increased need for a natural resource that is not a fossil fuel and evaluate the progress currently being made to solve the problems identified**
Refer to orange dot point 1.1 - above.

2. Many industrial processes involve manipulation of equilibrium reactions

1. **explain** the effect of changing the following factors on identified equilibrium reactions

Changing equilibrium reactions will be affected according to **Le Chatelier's principle** → any change will be countered to **minimise that change**.

- **pressure**

Changing pressure will only affect an equilibrium if there is at least one gas present in a reaction chamber. When pressure is increased, the volume occupied by the gas must try to adjust to this; as such the system will shift to the side which results in the **least number of moles of each reactant/product**.

Hsc Chemistry Notes Industrial Chemistry

Jim Stamell



Hsc Chemistry Notes Industrial Chemistry:

Treatise on Process Metallurgy, Volume 3: Industrial Processes, 2013-12-09 Process metallurgy provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products Coverage is divided into three volumes entitled Process Fundamentals encompassing process fundamentals extractive and refining processes and metallurgical process phenomena Processing Phenomena encompassing ferrous processing non ferrous processing and refractory reactive and aqueous processing of metals and Industrial Processes encompassing process modeling and computational tools energy optimization environmental aspects and industrial design The work distils 400 years combined academic experience from the principal editor and multidisciplinary 14 member editorial advisory board providing the 2 608 page work with a seal of quality The volumes will function as the process counterpart to Robert Cahn and Peter Haasen s famous reference family Physical Metallurgy 1996 which excluded process metallurgy from consideration and which is currently undergoing a major revision under the editorship of David Laughlin and Kazuhiro Hono publishing 2014 Nevertheless process and extractive metallurgy are fields within their own right and this work will be of interest to libraries supporting courses in the process area Synthesizes the most pertinent contemporary developments within process metallurgy so scientists have authoritative information at their fingertips Replaces existing articles and monographs with a single complete solution saving time for busy scientists Helps metallurgists to predict changes and consequences and create or modify whatever process is deployed *Chemistry and Industry*, 1989 **Excel HSC Chemistry** Jim Stamell, 2011 ISBN 9781741252996 AUTHOR Jim Stamell RRP 39 95 PAGES 428 pp SPECIFICATION Softcover perfect bound 280 mm x 210 mm STATUS New edition PUBLICATION DATE April 2008 The EXCEL HSC Chemistry guide is directly linked to the syllabus with every single dot point of the HSC Chemistry syllabus appearing in the margin of the book You can write in the guide so your study is focused and your notes are structured This guide comes in a brand new format that makes even better use of your study time up to date coverage of the core topics plus 3 Option topics Industrial Chemistry Shipwrecks Corrosion and Conservation and Forensic Chemistry this guide is organised just like the HSC syllabus so the students learn to section the theoretical part is under routine headings and the students section the practical part is under headings like First hand Second hand and Investigations and Problem Solving %this way you will be able to see at a glance what the theoretical and practical work is all main headings in each chapter 1 1 2 1 etc are directly from the syllabus word for word %this way you can easily match the Excel guide to the syllabus an alphabetical list of all the key definitions and concepts you should know from each chapter %an efficient way of learning all the definitions in one go chapter syllabus checklist with every single dot point listed in checklist form for each chapter %a fantastic way of testing that you know all the work hundreds of key concept questions with answers %questions that test you recall of knowledge in each chapter HSC type questions for every section in each chapter with clock icons to tell you how much time you will have to answer the questions in the HSC %this way you

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World Databases in Chemistry C. J. Armstrong, 1996 The easy to use format provides information on both the database itself and the data providers with all the details necessary to identify the source that best matches the needs of information specialists online searchers and researchers working in this field

The School Science Review, 1939

Treatise on Process Metallurgy, Volume 2B Seshadri Seetharaman, Alexander McLean, Roderick Guthrie, Sridhar Seetharaman, H. Y. Sohn, 2025-07-01 Treatise on Process Metallurgy Volume 2B Unit Processes presents various unit processes with an emphasis on mineral processing hydrometallurgy and electrochemical materials and energy processes The book highlights the roles of these processes in beneficiation rare earth extraction utilization of lean resources coal extraction and biofuels reflecting the shift toward green and electrochemical processes Basic knowledge of thermodynamics and kinetics is provided for better understanding of metallurgical processes The first section of the book covers mineral processing providing insight on comminution separation processes dewatering and tailings disposal The second section focuses on hydrometallurgy discussing leaching separation purification metal recovery and battery materials and the book concludes with a section studying electrochemical material and energy featuring coverage of molten oxide electrolysis molten carbonate fuel cells various sensors and ionic liquids Each section also includes various case studies demonstrating the use of the concepts in real world settings Covers mineral processing electrochemical materials and hydrometallurgy and their roles in beneficiation rare earth extraction utilization of lean resources coal extraction and biofuels Provides basic knowledge on thermodynamics and kinetics needed for understanding the principles of metallurgical processes Includes a section on electrochemical materials and energy processes covering molten salts electrolysis fuel cells and nuclear molten salt reactors Features insight into the entire process chain unit processes that are generally overlooked and unit processes that combine hydro electro and pyro processes in an optimal way

Proceedings of the 8th International Symposium on Heating, Ventilation and Air Conditioning Angui Li, Yingxin Zhu, Yuguo Li, 2013-09-24 Proceedings of the 8th International Symposium on Heating Ventilation and Air Conditioning is based on the 8th International Symposium of the same name ISHVAC2013 which took place in Xi an on October 19 21 2013 The conference series was initiated at Tsinghua University in 1991 and has since become the premier international HVAC conference initiated in China playing a significant part in the development of HVAC and indoor environmental research and industry around the world This international conference provided an exclusive opportunity for policy makers designers researchers engineers and managers to share their experience Considering the

recent attention on building energy consumption and indoor environments ISHVAC2013 provided a global platform for discussing recent research on and developments in different aspects of HVAC systems and components with a focus on building energy consumption energy efficiency and indoor environments These categories span a broad range of topics and the proceedings provide readers with a good general overview of recent advances in different aspects of HVAC systems and related research As such they offer a unique resource for further research and a valuable source of information for those interested in the subject The proceedings are intended for researchers engineers and graduate students in the fields of Heating Ventilation and Air Conditioning HVAC indoor environments energy systems and building information and management Angui Li works at Xi an University of Architecture and Technology Yingxin Zhu works at Tsinghua University and Yuguo Li works at The University of Hong Kong

Uhlig's Corrosion Handbook R. Winston Revie, 2011-05-18 This book serves as a reference for engineers scientists and students concerned with the use of materials in applications where reliability and resistance to corrosion are important It updates the coverage of its predecessor including coverage of corrosion rates of steel in major river systems and atmospheric corrosion rates the corrosion behavior of materials such as weathering steels and newer stainless alloys and the corrosion behavior and engineering approaches to corrosion control for nonmetallic materials New chapters include high temperature oxidation of metals and alloys nanomaterials and dental materials anodic protection Also featured are chapters dealing with standards for corrosion testing microbiological corrosion and electrochemical noise

Industrial Chemistry Richard Alliband, Thomas Brown, 2003

Metal Recycling, 2013 Metal recycling is a complex business that is becoming increasingly difficult Recycling started long ago when people realized that it was more resource and cost efficient than just throwing away the resources and starting all over again In this report we discuss how to increase metal recycling rates and thus resource efficiency from both quantity and quality viewpoints The discussion is based on data about recycling input and the technological infrastructure and worldwide economic realities of recycling Decision makers set increasingly ambitious targets for recycling but far too much valuable metal today is lost because of the imperfect collection of end of life EoL products improper practices or structural deficiencies within the recycling chain which hinder achieving our goals of high resource efficiency and resource security and of better recycling rates

Educational Opportunities in Africa, 1979 International University Exchange Fund, 1979 Directory of approximately 350 university and other higher education institutions in Africa includes admission requirements duration of courses certificates awarded etc

Indian Journal of Chemistry, 1976

A.S.L.I.B. Information, 1929

"The" Athenaeum, 1897

Australian Books in Print 1997 Bowker, 1997-03 excellent coverage essential to worldwide bibliographic coverage

AMERICAN REFERENCE BOOKS ANNUAL This comprehensive reference provides current finding ordering information on more than 60 000 in print books published in or about Australia or written by Australian authors organized by title author keyword You ll also find brief profiles of more than 5 000 publishers distributors whose titles are represented as well as

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 Marine Engineers Review ,1985

The Top Books of the Year Hsc Chemistry Notes Industrial Chemistry The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Hsc Chemistry Notes Industrial Chemistry : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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