

PHYSICAL PHARMACY (LECTURE)

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IMPORTANCE OF STUDYING THE PHENOMENON OF SOLUBILITY

Understanding the phenomenon of solubility helps the pharmacist to:

1. Select the best solvent for a drug or a mixture of drugs.
2. Overcome problems arising during preparation of pharmaceutical solutions.
3. Have information about the structure and intermolecular forces of the drug.
4. Many drugs are formulated as solutions or added as powder or solution forms to liquids.
5. Drugs with low aqueous solubility often present problems related to their formulation and bioavailability.

SOLUBILITY

- > **In a quantitative way:** it is the concentration of solute in a saturated solution at a certain temperature.
- > **In a qualitative way:** it is the spontaneous interaction of two or more substances (solute and solvent) to form a homogenous molecular dispersion.

DEFINITION OF TERMS

SOLUTION

- > is a mixture of two or more components that forms a homogenous mixture. The components are referred to the solute and/or solutes and the solvent and/or solvents.

SOLUTE

- > is the dissolved agent (less abundant part of the solution)

SOLVENT

- > is the component in which the solute is dissolved (more abundant part of the solution)

A SUPERSATURATED SOLUTION

- > contains more of the dissolved solute than it would normally contain in a saturated state at a definite temperature.

DEGREE OF SATURATION SOLUBILITY CURVE

Any solution can be saturated, unsaturated, or supersaturated by changing temperature.



THERMODYNAMIC SOLUBILITY OF DRUGS

- > The thermodynamic solubility of a drug in a solvent is the maximum amount of the most stable crystalline form that remains in solution (or quantity of the drug substance which can be completely dissolved) in a given volume of the solvent at a given temperature and pressure under equilibrium conditions.
- > The equilibrium involves a balance of the energy of three interactions against each other:
 - o Solvent with solvent
 - o Solute with solute
 - o Solvent and solute

Fig. 10. Solubility depends on the solution



Fig. 11. Solubility of the solid depends on the solvent



Fig. 12. The same solid substance is dissolved into the same or the solvent



Fig. 13. Process of solubilization

SOLUBILITY PROCESS

A mechanistic perspective of solubilization process for organic solute in water involves the following steps:

1. Break up of solute-solute intermolecular bonds.
2. Break up of solvent-solvent intermolecular bonds.
3. Formation of cavity in solvent phase large enough to accommodate solute molecule.
4. Transfer of solute into the cavity of solvent phase.
5. Formation of solute-solvent intermolecular bonds.

ENTHALPY

- > The enthalpy change of solution refers to the overall amount of heat which is released or absorbed during the dissolving process (at constant pressure).
- > The enthalpy of solution can either be positive (endothermic reaction) or negative (exothermic reaction).



Physical Pharmacy Lecture Notes

Marcel A. Müller



Physical Pharmacy Lecture Notes:

FASTtrack Physical Pharmacy David Attwood, Alexander Taylor Florence, 2012 This FASTtrack book is a revision guide for students giving bullet points of basic information on physical pharmacy This text is derived from the textbook *Physicochemical Principles of Pharmacy* and is designed to be used alongside it for those revision periods when time is short It includes key points tips self assessment questions answers and memory maps to aid with revision For this second edition there is a new chapter added on pharmaceutical nanotechnology and clinical notes are incorporated Journal of the American Pharmaceutical Association American Pharmaceutical Association, 1929 **Advanced Pharmaceutics** Cherng-ju Kim, 2004-03-17 Discussing a comprehensive range of topics *Advanced Pharmaceutics Physicochemical Principles* reviews all aspects of physical pharmacy The book explains the basic mechanistic and quantitative interpretation skills needed to solve physical pharmacy related problems The author supplies a strong fundamental background and extensively covers therm

Catalogue American University of Beirut, 1927 **School of Pharmacy** Temple University. School of Pharmacy, 1958 *Current Catalog* National Library of Medicine (U.S.), 1969 Includes subject section name section and 1968 1970 technical reports **General Bulletin** University of Santo Tomás, 1972 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1969 First multi year cumulation covers six years 1965 70 *Collected Studies on Immunity* Paul Ehrlich, 1906 **Pharmaceutical Journal** , 1901 **Handbook of Engineering Systems Design** Anja Maier, Josef Oehmen, Pieter E. Vermaas, 2022-07-30 This handbook charts the new engineering paradigm of engineering systems It brings together contributions from leading thinkers in the field and discusses the design management and enabling policy of engineering systems It contains explorations of core themes including technical and socio organisational complexity human behaviour and uncertainty The text includes chapters on the education of future engineers the way in which interventions can be designed and presents a look to the future This book follows the emergence of engineering systems a new engineering paradigm that will help solve truly global challenges This global approach is characterised by complex sociotechnical systems that are now co dependent and highly integrated both functionally and technically as well as by a realisation that we all share the same climate natural resources a highly integrated economical system and a responsibility for global sustainability goals The new paradigm and approach requires the re designing of engineering systems that take into account the shifting dynamics of human behaviour the influence of global stakeholders and the need for system integration The text is a reference point for scholars engineers and policy leaders who are interested in broadening their current perspective on engineering systems design and in devising interventions to help shape societal futures **Elements of the Infinitesimal Calculus** George Henry Chandler, 1907 **The Chlorination Process** Eugene Benjamin Wilson, 1897 **Analytical Chemistry** Frederick Pearson Treadwell, 1906 **The Modern Asphalt Pavement** Clifford Richardson, 1905 **Clays** Heinrich Ries, 1906 Principles and Practice of Artificial Ice-making and Refrigeration

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Physical Pharmacy Lecture Notes: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. Physical Pharmacy Lecture Notes : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Physical Pharmacy Lecture Notes : Delia Owens "Where the Crawdads Sing" This mesmerizing 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 engaging stories waiting to be discovered. The novel begins with Richard Papen, 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 speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Physical Pharmacy Lecture Notes

1. Understanding the eBook Physical Pharmacy Lecture Notes
 - The Rise of Digital Reading Physical Pharmacy Lecture Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Pharmacy Lecture Notes
 - 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 eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Pharmacy Lecture Notes
 - Personalized Recommendations
 - Physical Pharmacy Lecture Notes User Reviews and Ratings
 - Physical Pharmacy Lecture Notes and Bestseller Lists
5. Accessing Physical Pharmacy Lecture Notes Free and Paid eBooks
 - Physical Pharmacy Lecture Notes Public Domain eBooks
 - Physical Pharmacy Lecture Notes eBook Subscription Services
 - Physical Pharmacy Lecture Notes Budget-Friendly Options
6. Navigating Physical Pharmacy Lecture Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Pharmacy Lecture Notes Compatibility with Devices
 - Physical Pharmacy Lecture Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Pharmacy Lecture Notes
 - Highlighting and Note-Taking Physical Pharmacy Lecture Notes
 - Interactive Elements Physical Pharmacy Lecture Notes
8. Staying Engaged with Physical Pharmacy Lecture Notes

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Pharmacy Lecture Notes
9. Balancing eBooks and Physical Books Physical Pharmacy Lecture Notes
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Pharmacy Lecture Notes
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Pharmacy Lecture Notes
- Setting Reading Goals Physical Pharmacy Lecture Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Pharmacy Lecture Notes
- Fact-Checking eBook Content of Physical Pharmacy Lecture Notes
 - 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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