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# PHYSICAL PHARMACEUTICS

## About the Book

Physical pharmaceutics / Physical pharmacy, a key subject in pharmaceutics, is taught in the second semesters of B. Pharm, to understand the principles relevant to the design and development of drugs and drug products, stability criteria's and shelf life of the medicines. Thus a systematic knowledge of the concerned subject is important and essential. In this book emphasis is done on the physicochemical properties and various processes like solutions, ionisation, dissolution, partitioning, mass transport, complexation, protein binding and many more topics to explain several concepts that describe the fate of the drug in the body. These chapters' concepts are critical not only for understanding a medication's fate in the body, but also for providing a scientific foundation for rational drug development and use. Other physical pharmacy subjects relevant to drug formulation are covered in the next chapters, which cover dispersed systems, adsorption, and interfacial phenomena. The book finishes with a review of the kinetic concepts and buffer action that are critical for understanding the speeds at which many of the phenomena occurs when a drug reaches the blood stream.

## Features

- Efforts have been made to provide basic knowledge of physical pharmacy by including the science of formulation and drug delivery.
- It also explores the latest developments in the field of physical pharmacy.
- It provides an integrated understanding of theoretical applications associated with physicochemical concepts of drugs.
- It covers all the topics included in various existing syllabus of physical pharmacy and each chapter provides comprehensive information on the relevance of various principles in the design of dosage form.
- The book has been written keeping in view the requirements of the graduate, post graduate students, teachers and research scientists in pharmaceutical fields as per the latest requirements.

**Kiran Singh Sharma**

## (Contents)

- General Solubility
- Solubility of Drugs
- States of Matter
- Properties of Matter
- Physicochemical Properties of Drug Molecules
- Surface and Interfacial Phenomenon
- Complexation
- Protein Binding
- pH and Buffres
- Isotonic Solutions

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