

## B D Khosla Practical Chemistry

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including case studies of macrocyclic marketed drugs and macrocycles in drug

development this book helps medicinal chemists deal with the synthetic and conceptual challenges of macrocycles in drug discovery efforts provides needed background to build a program in macrocycle drug discovery design criteria macrocycle profiles applications and limitations features chapters contributed from leading international figures involved in macrocyclic drug discovery efforts covers design criteria typical profile of current macrocycles applications and limitations

this book covers the latest syllabus of cbcs pattern of delhi and other universities for both b sc programme and honours courses a large number of physical chemistry environmental chemistry nanoscience polymer chemistry and analytical chemistry experiments have been covered using interdisciplinary and innovative methods the contents include some fundamental chemical concepts measurement of surface tension and viscosity colorimetry determination of order of a reaction heterogeneous equilibria adsorption on solid surfaces thermochemical measurements conductometric and potentiometric measurements ph metry environmental parameter analysis etc wherever possible two or more methods are given so the teachers and students will have a choice to make depending on the availability of chemicals apparatus instruments time etc this book will give them the opportunity to relate theory and practicals for a better understanding of the subject

combinatorial chemistry is the ability to simultaneously synthesize vast numbers of diverse compounds its techniques have revolutionized the drug discovery process and are widely used throughout the biotechnology community aimed at a wide audience this text is a down to earth introduction to small molecule combinatorial chemistry it uses a tutorial approach to provide a detailed survey of solid phase peptide synthesis and solution phase synthesis it also reviews current automated approaches and equipment for both solid and solution phase library synthesis

for b sc i ii iii year students

the practice of medicinal chemistry fills a gap in the list of available medicinal chemistry literature it is a single volume source on the practical aspects of medicinal chemistry considered the bible by medicinal chemists the book emphasizes the methods that

chemists use to conduct their research and design new drug entities it serves as a practical handbook about the drug discovery process from conception of the molecules to drug production the first part of the book covers the background of the subject matter which includes the definition and history of medicinal chemistry the measurement of biological activities and the main phases of drug activity the second part of the book presents the road to discovering a new lead compound and creating a working hypothesis the main parts of the book discuss the optimization of the lead compound in terms of potency selectivity and safety the practice of medicinal chemistry can be considered a first read or bedside book for readers who are embarking on a career in medicinal chemistry new to this edition focus on chemoinformatics and drug discovery enhanced pedagogical features new chapters including drug absorption and transport multi target drugs updates on hot new areas new drug discovery and the latest techniques new how potential drugs can move through the drug discovery development phases more quickly new chemoinformatics

this book examines enzymatic reactions from the standpoint of physical chemistry an introductory chapter gives a brief overview of the role of enzymes in metabolism biotechnology and medicine while describing the framework for chemical mimicry of enzyme reactions subsequent chapters of the book are devoted to a general overview of vital enzyme processes methods of enzyme kinetic reactions the theory of elementary mechanisms orienting dynamic and polar factors affecting enzyme catalysts as well as the current status and prospects of enzyme chemical modeling the book gives particular attention to chemical reactions highly important in modern research efforts such as the conversion of light energy into chemical energy with a high quantum yield photooxidation of water reduction of atmospheric nitrogen and utilization of carbon dioxide in ambient conditions the book is intended for scientists working on enzyme catalysis and the adjacent areas such as chemical modeling of biological processes homogeneous catalysis biomedical research biotechnology and bioengineering in addition it can serve as secondary instructional material for graduate and undergraduate students of chemistry medicine biochemistry biophysics biophysiology and bioengineering

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