Pharmaceutical Mathematics with Application to Pharmacy

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Foreword

It gives me immense pleasure in introducing this book on **"Pharmaceutical Mathematics with Application to Pharmacy"** authored by Mr. Panchaksharappa Gowda D.H. This book describes the fundamental aspects of Pharmaceutical Mathematics a core subject, Industrial Pharmacy and Pharmacokinetics application in a very easy to read and understandable language with number of pharmaceutical examples. This book not only deals with Pharmaceutical Mathematics but also with related aspects such as Factorial design problems (formulations), Pharmacokinetics and Physical pharmaceutics, etc.

The book is not just theoretical, but based on the practical application by the author over the years. As far as I know there has been no attempts earlier by an Indian author to write a textbook in this area specially related to Pharmacy course.

The author of this book is known for his expertise in teaching for more than twenty seven years, a dedicated, student caring teacher was instrumental in introducing Pharmaceutical Mathematics at B.Pharm and Pharm D level. He worked very hard in restructuring the JSS University, Mysore syllabus of Pharmaceutical Mathematics and Biostatistics and Computer application in Pharmacy. He has conducted workshops on Design of experiments (DOE) and Biostatistics and its application for M.Pharm and Doctoral students.

I am sure this book will be highly informative and interesting reading material for the students of B.Pharm, Pharm D and M.Pharm and other related course in the field of Pharmaceutical Sciences.

It is my great pleasure to commend this textbook, as it will strengthen and support in learning the related Pharmacy subjects.

I wish every success to Mr. Panchaksharappa Gowda D. H. for all such endeavors.

Dr. B. Suresh

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Vice chancellor, JSS University,
JSS Medical Institutions campus,
Mysore-570 015.

Preface

Mathematics has been given an important place in pharmacy course to solve various equations in pharmacokinetics. No students of these discipline can afford without the knowledge of those topics which are explained in this book. The present text is designed to introduce students about the methods and applications of Mathematics in Industrial Pharmacy and Pharmacokinetics.

This book covers theoretical, Practical and applied aspects of mathematics in a clear and exhaustive way. The author has attempted to give as many illustrations as possible in order to make the students to understand various methods in solving or deriving the Pharmacokinetics Problems. I claim no originality for the matter presented in the text, however, the methods of presentation and arrangement of the subject-matter is my own, which reflects an approach for mathematical methods to solve kinetic equation and also understandability based on the long teaching experience of degree (B.Pharm, Pharm.D) and Post-graduate classes.

I hope that the book will be found more useful by the students. I invite suggestions from students as well as my teacher-friends for any improvement (addition or deletion) of the book in future. I would like to thank my colleagues for their encourage and suggestions.

The author accepts full responsibility for any typographical or subject-matter errors, which may be there in the book of this dimension and subject.

- Author

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