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# Business Mathematics

## Theory & Applications

J.K. Sharma

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# BUSINESS MATHEMATICS

## Theory and Applications

Text Book Useful for

- BBA, NCA, BIT, BIT
- PGDBM, MBA, M Com
- B Com (H), BA (Eco. Hons)
- CA, ICWA

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# *Preface*

The primary objective of this text is to provide the basic concepts and applications of mathematics suited to the needs of students appearing in the examinations of BCom (Hons.), BA (Eco. Hons.), MCom, MA (Eco.), BBA, BCA, MBA, BIT, CA, ICWA and other professional examinations. The development of this book reflects a special concern to present mathematical concepts in terms that the reader can understand and practice with a variety of illustrations and examples. Thus the approach is to communicate the practical aspects of mathematics in a way that drives out the common fear of learning any mathematical subject.

Although there are several topics that could be included in this text, however, only those have been selected which are important and mostly taught in a fundamental course on mathematics. The ordering of the chapters reflects the most desirable sequence of topic coverage, while at the same time allowing for flexibility in the choice of topics.

The text is divided into two parts. Part I is devoted to topics on Business Mathematics, and Part-II contains topics on Linear Programming. There are 23 chapters and in each of them the concepts and methods are properly supported by illustrations followed by numerous and varied types of *solved examples* to provide students an integrated view of theory and applications of mathematics. A large number of *self practice problems with hints and answers* have been added in each chapter to enable students to learn at their own pace. Most of the questions conform to the trend questions appearing in the university and professional examinations.

I gratefully acknowledge the inspiration, encouragement and valuable suggestions received from my students and many teachers who have taught this course to undergraduate and postgraduate classes of several universities and schools of management.

Finally, I would like to thank my wife and children for their patience, understanding, love and assistance in making this book a reality. It is to them I dedicate this book.

I have tried my best to make this book free from errors, omissions and discrepancies. If you have any suggestions, or material requiring clarification or should you found potential errors, please write to me. Your suggestions and comments for the improvement of this book will be thankfully received and duly incorporated in the subsequent editions.

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## PART II : LINEAR PROGRAMMING