

# Mathematics - I (Calculus and Linear Algebra) For Non-Computer Science Engineering Branches

**Author:** Reena Garg

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### **Product Description**

Calculus, Multivariable Calculus and Linear Algebra covers all the Modules prescribed by AICTE. Model curriculum to all the 1st year students (except CSE) studying in engineering institutions and universities of the country. It serves as both text book and / or useful reference work. It contains 5 units which include calculus, matrices, sequences & series and multivariable calculus along with their applications. This renowned and well respected title provides in one handy volume with the essential mathematical tools that helps in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE, this book is in student friendly style, author has endeavored enormous efforts in providing numerous solved examples and exercise under each topic to facilitate better understanding of the concepts to the students. Majority of Questions in this book have been designed to success the reader understands of the subject. Professionals or those who are preparing for competitive examinations will also find this book very useful. This book will give the students a complete grasp of the mathematical skills that are needed by engineers all over the country. Some Salient Features of the Book: · In depth coverage of all related, essential and mentioned topics as per AICTE in simple presentation with clarity and accuracy. · Emphasis on the applications of concepts and theorems. · Core concepts are presented through a large number of solved graded model examples in an innovative and lucid manner. A good number of relatively competitive problems are given at the end of each unit in the form of short questions, HOTS, assignments, MCQs and know more for student's practices purpose. Practical /Projects/ Activity also given in each unit for enhancing the student's capability, to increase the feeling of team work. To clarify the subject, the text has been supplemented through Notes, Observations and Remarks; an attempt has been made to explain the topic through maximum use of geometries wherever possible. · Some standard problems with sufficient hints have been included in each exercise to gauge the



#### **Table of Contents**

**Foreword** 

**Acknowledgement** 

**Preface** 

**Outcome Based Education** 

**Course Outcomes** 

**Abbreviations and Symbols** 

**List of Figures** 

**Guidelines for Teachers** 

**Guidelines for Students** 

Chapter 1: Calculus-I.

Chapter 2: Calculus-II.

**Chapter 3:** Sequences and Series.

Chapter 4: Multivariable Calculus -I.

Chapter 5: Matrices.

Index

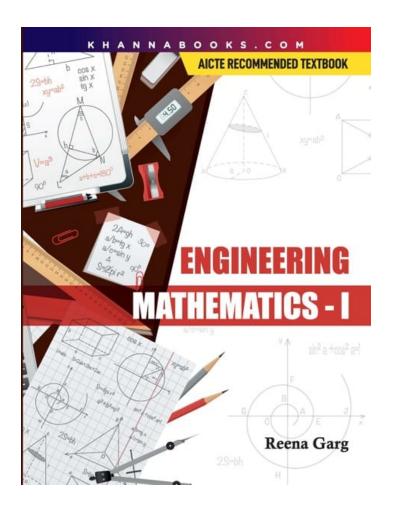
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#### **Author**

#### Reena Garg

Dr. Reena Garg, M.Sc. Mathematics (Gold Medalist), M.Phil, Ph.D is Assistant Professor (Mathematics) in YMCA University of Science & Technology, Faridabad (Haryana). She also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this book more valuable for the knowledge seekers. She has published more than 10 research papers in various International Journals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.





# **Engineering Mathematics-I**

**Author:** Reena Garg

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### **Product Description**

This book is designed to meet the complete requirements of Engineering Mathematics course of undergraduate syllabus, The book consists of seven chapters viz. infinite Series, Matrices, Expansion of Functions, Asymptotes, Curvature, Partial Differentiation, Multiple Integrals, Each chapter is treated in treated in systematic, logical and lucid manner, All these chapters are independent units in themselves. The students can go through the book picking up any chapter at any given times, without referring to other chapters, Hints, where ever necessary and answers of the questions in the exercises are given at the end of each exercise, Most of the questions-solved as well as unsolved-have been picked up from the examination papers of different universities and professional examinations, There are fully worked out examples and graded exercises (with answers) aimed at preparing the student for examination as well as higher studies, The authors have illustrated various methods to solve particular problems.



### **Table of Contents**

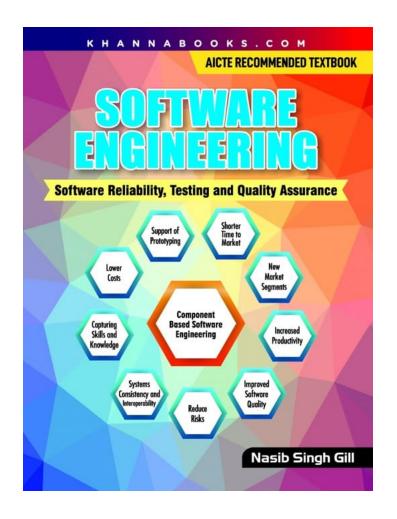
Chapter 1: Infinite Series. Chapter 2: Matrices. Chapter 3: Expansion of Functions. Chapter 4: Asymptotes.

**Chapter 5:** Curvature. **Chapter 6:** Partial Differentiation. **Chapter 7:** Double and Triple Integrations.

#### **Author**

**Reena Garg** Dr. Reena Garg, M.Sc. Mathematics (Gold Medalist), M.Phil, Ph.D is Assistant Professor (Mathematics) in YMCA University of Science & Technology, Faridabad (Haryana). She also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this book more valuable for the knowledge seekers. She has published more than 10 research papers in various International Journals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.





## **Software Engineering**

**Author:** Nasib Singh Gill

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### **Product Description**

Each and every chapter covers the contents up to a reasonable depth necessary for the intended readers in the field. The book consists in all about 1200 exercises based on the topics and sub-topics covered. Keeping in view the emerging trends in newly emerging scenario with new dimension of software engineering, the book specially includes the following chapters, but not limited to these only. This book explains all the notions related to software engineering in a very systematic way, which is of utmost importance to the novice readers in the field of software Engineering.



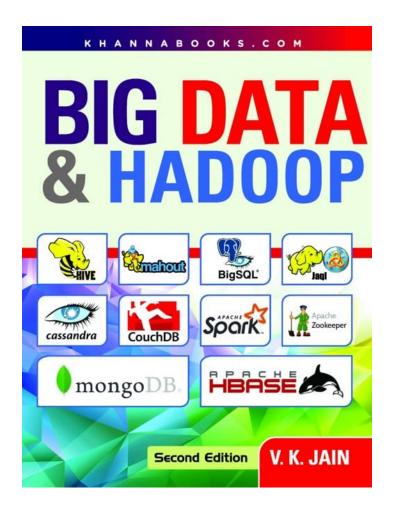
### **Table of Contents**

Chapter 1: Historical Evolution of Software Engineering. Chapter 2: Software Life cycle Models. Chapter 3: Software Project Management. Chapter 4: Software Project Estimation and Risk Management. Chapter 5: Requirements Engineering and Specifications. Chapter 6: Software Design Fundamentals Chapter 7: Software Design Strategies and Methods. Chapter 8: Structured Analysis and Design Tools. Chapter 9: User Interface Design. Chapter 10: Coding. Chapter 11: Software testing Techniques and Strategies. Chapter 12: Software Measures, Metrics and Models. Chapter 13: Software Quality and Quality Assurance. Chapter 14: Software Quality Standards and Models. Chapter 15: Software Reliability and Reliability Models. Chapter 16: Software Safety and Hazard Analysis. Chapter 17: Computer Aided Software Engineering (CASE) Tools. Chapter 18: Software Maintenance and Maintenance Costs. Chapter 19: Software Configuration Management. Chapter 20: Software Reuse and Activities. Chapter 21: Component- Based Software Engineering. Chapter 22: Software Architecture. Chapter 23: Software Documentation. Chapter 24: Software Re-engineering.

### **Author**

**Nasib Singh Gill** Dr. Nasib Singh Gill is a high profile and an acknowledge teacher. Dr. Gill obtained his Ph.D. degree in Computer Science in March 1996 under the supervision of a very renowned and an eminent Computer Scientist, Pro-Head, Department of Computer Science & Applications, M.D. University, Rohatak. He is working in Department of Computer Science & Applications, M.D. University, Rohatak since its inception in Feb. 1990. Presently, he is working as Senior Faculty in the department and has more than 10.5 years of teaching experience. His area of research is 'Software Metrics', a sub-area of 'Software engineering' discipline and presently he is orienting himself in the area of 'Information Technology'





## **Big Data & Hadoop**

**Author:** V.K. Jain

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### **Product Description**

This book introduces you to the Big Data processing techniques addressing but not limited to various BI (business intelligence) requirements, such as reporting, batch analytics, online analytical processing (OLAP), data mining and Warehousing, and predictive analytics. The book has been written on IBMs Platform of Hadoop framework. IBM Info sphere Big Insight has the highest amount of tutorial matter available free of cost on Internet which makes it easy to acquire proficiency in this technique. This therefore becomes highly vulnerable coaching materials in easy to learn steps. The book optimally provides the courseware as per MCA and M. Tech Level Syllabi of most of the Universities. All components of big Data Platform like Jaql, Hive Pig, Sqoop, Flume, Hadoop Streaming, Oozie: HBase, HDFS, Fume NG, Whirr, Cloundera, Fuse, Zookeeper and Mahout: Machine learning for Hadoop has been discussed in sufficient Detail with hands on Exercises on each.



### **Table of Contents**

Chapter 1: OVERVIEW OF BIG DATA. Chapter 2: BASICS OF HADOOP. Chapter 3: IBM'S INFOSPHERE BIGINSIGHTS.

Chapter 4: HADOOP DISTRIBUTED FILE SYSTEM. Chapter 5: NO SQL DATA MANAGEMENT AND MONGODB. Chapter 6: HBASE AND CASSENDRA. Chapter 7: MAPREDUCE. Chapter 8: JAQL: JSON BASED QUERY LANGUAGE. Chapter 9: HIVE: THE DATA WARE HOUSE OF HADOOP. Chapter 10: PIG: THE HIGHER LEVEL PROGRAMMING

ENVIRONMENT. Chapter 11: BIGSHEETS SPREADSHEET LIKE ENVIRONMENT. Chapter 12: BIGSHEETS WORKBOOKS.

Chapter 13: SQOOP: IMPORTING DATA FROM HETEROGENEOUS SOURCES. Chapter 14: DATA STREAM MINING.

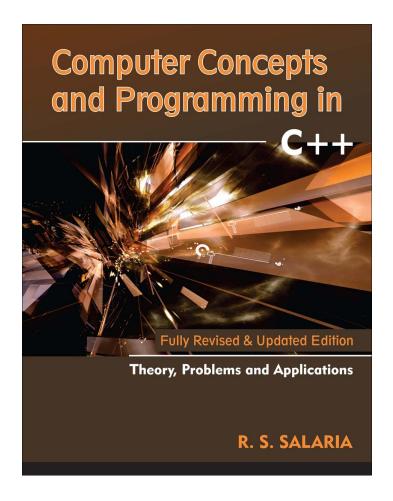
Chapter 15: FLUME: BIG DATA REALTIME STREAMING. Chapter 16: R PROGRAMMING: A STRONG VISUALIZATION

AND GRAPHICS TOOL. Chapter 17: OTHER COMPONENTS OF HADOOP: OZZIE, ZOOKEEPER AND MAHOUT.

### **Author**

Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on "Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the premier Institution of India IIT (Indian Institute of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultant engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.





# Computer Concepts and Programming in C++

**Author:** R.S. Salaria

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### **Product Description**

The Subjects of Fundamentals of Computers and Programming in C++ are compulsory subjects in the syllabus of BCA, BSc ( Computer Science ), BSc (IT), PGDCA, MSc (Computer Science), MSc ( IT ), B Tech and MCA of all Indian Universities. This book is designed to serve as a textbook for the students studying in these programs of study and it covers the topics of Fundamentals of Computers as well as Programming in C++ . The level of presentation in simple and illustrative so that a reader can grasp the subject matter with quite ease. Practically this book will provide you every thing you need on the subject of Fundamentals of Computers and Programming in C++.



#### **Table of Contents**

Chapter 1: Introduction to Computers. Chapter 2: Computer as a System. Chapter 3: Input/Output Devices.

Chapter 4: Memories and Storage Devices. Chapter 5: Introduction to Operating Systems. Chapter 6: Working With Microsoft Word. Chapter 7: Working With Microsoft Excel. Chapter 8: Working With Microsoft PowerPoint.

Chapter 9: Internet and Its Applications. Chapter 10: Problem Solving and Program Planning. Chapter 11:

Overview of C++ Language. Chapter 12: Data Types, Operators and Expressions. Chapter 13: Handling

Input/Output. Chapter 14: Control Statements. Chapter 15: Functions. Chapter 16: Arrays and Strings. Chapter 17: Introduction to OOPS Concept. Chapter 18: Working with Classes and Objects. Chapter 19: Basis of File Handling.

#### **Author**

**Prof. R. S. Salaria** is a great teacher, prolific author, excellent motivator, and an outstanding social reformer. He is an alumnus of IIT, Delhi. He is a Certified Software Quality Professional by Ministry of Information Technology, Govt. of India; Sun Certified Programmer and Trainer by SUN Microsystem, USA. He is a life member of Computer Society of India, Mumbai; Institution of Electronics and Telecommunication Engineers, New Delhi; Indian Society for Technical Education, New Delhi; Punjab Academy of Sciences, Patiala. He has authored books in the subject of Computer Science, Mathematics and Communication Skills. His books are recommended by various Universities/Boards/ Institutions across the country. AICTE has also recommended his books in the model curriculum designed for Engineering & Technology at the BE/BTech level. He is passionately taking initiatives to sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living.

