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*When a new extraordinary and outstanding theory is stated, it has to face criticism and skepticism, because it is beyond the usual concept. The fractional calculus though not new, was not discussed or developed for a long time, particularly for lack of its application to real life problems. It is extraordinary because it does not deal with 'ordinary' differential calculus. It is outstanding because it can*

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now be applied to situations where existing theories fail to give satisfactory results. In this book not only mathematical abstractions are discussed in a lucid manner, with physical mathematical and geometrical explanations, but also several practical applications are given particularly for system identification, description and then efficient controls. The normal physical laws like, transport theory, electrodynamics, equation of motions, elasticity,

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*viscosity, and several others of are based on 'ordinary' calculus. In this book these physical laws are generalized in fractional calculus contexts; taking, heterogeneity effect in transport background, the space having traps or islands, irregular distribution of charges, non-ideal spring with mass connected to a pointless-mass ball, material behaving with viscous as well as elastic properties, system relaxation with and without memory, physics of*

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*random delay in computer network; and several others; mapping the reality of nature closely. The concept of fractional and complex order differentiation and integration are elaborated mathematically, physically and geometrically with examples. The practical utility of local fractional differentiation for enhancing the character of singularity at phase transition or characterizing the irregularity measure of response function is deliberated. Practical*

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*results of viscoelastic experiments, fractional order controls experiments, design of fractional controller and practical circuit synthesis for fractional order elements are elaborated in this book. The book also maps theory of classical integer order differential equations to fractional calculus contexts, and deals in details with conflicting and demanding initialization issues, required in classical techniques. The book presents a modern approach*

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to solve the 'solvable' system of fractional and other differential equations, linear, non-linear; without perturbation or transformations, but by applying physical principle of action-and-opposite-reaction, giving 'approximately exact' series solutions.

Historically, Sir Isaac Newton and Gottfried Wihelm Leibniz independently discovered calculus in the middle of the 17th century. In recognition to this remarkable discovery,

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*J. von Neumann remarked,  
“...the calculus was the  
first achievement of  
modern mathematics and it  
is difficult to  
overestimate its  
importance. I think it  
defines more equivocally  
than anything else the  
inception of modern  
mathematical analysis  
which is logical  
development, still  
constitute the greatest  
technical advance in exact  
thinking.” This XXI  
century has thus started  
to ‘think-exactly’ for  
advancement in science &  
technology by growing*

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*application of fractional calculus, and this century has started speaking the language which nature understands the best. Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough*



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*topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises. This book has received very good response from students and teachers within the country and abroad alike. Its previous edition exhausted in a very short time. I place on*

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*record my sense of gratitude to the students and teachers for their appreciation of my work, which has offered me an opportunity to bring out this revised Eighteenth Edition. Due to the demand of students a chapter on Linear Programming as added. A large number of new examples and problems selected from the latest question papers of various engineering examinations held recently have been included to enable the students to understand the latest trend.*

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*O'Neil's ADVANCED ENGINEERING MATHEMATICS, 8E makes rigorous mathematical topics accessible to today's learners by emphasizing visuals, numerous examples, and interesting mathematical models. New Math in Context broadens the engineering connections by demonstrating how mathematical concepts are applied to current engineering problems. The reader has the flexibility to select from a variety of topics to study from additional posted web*

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in the ebook version.*

*A Textbook on Engineering  
Mathematics Vol-III (MDU)  
Pearson New International  
Edition*

*Engineering Mathematics  
Vol 1*

*Engineering Mathematics  
with Examples and  
Applications  
4th International  
Conference on  
Computational Mathematics  
and Engineering Sciences  
(CMES-2019)*

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**Engineering Mathematics, 4e, is designed for the first semester undergraduate students of B.E/ B. Tech courses. In their trademark student friendly style, the authors have endeavored to provide an in-depth understanding of the concepts. Supported by a variety of solved examples, with reference to appropriate engineering applications, the book delves into the fundamental and theoretical concepts of Differential Calculus, Functions of several variables, Integral Calculus, Multiple Integrals, and Differential equations. Features: -450+ solved examples -450+ exercises with answers -250+ Part A questions with answers -Plenty of hints for problems -Includes a free book containing FAQs Table of Contents: Preface About the Authors Chapter 1) Differential Calculus Chapter 2)**

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**Functions of Several Variables Chapter  
3) Integral Calculus Chapter 4)  
Multiple Integrals Chapter 5)  
Differential Equations**

**Engineering Mathematics is designed to suit the curriculum requirements of undergraduate students of engineering. In their trademark student friendly style, the authors have endeavored to provide an in depth understanding of the concepts.**

**Engineering Mathematics is an interdisciplinary subject offered to the undergraduate engineering students. Considering the vast coverage of the subject, this book is designed for the second semester students of B.E/ B.Tech. The book offers a large number of exercises and a variety of solved examples with reference to engineering applications wherever appropriate.**

**Introduction to Engineering**

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**Mathematics Volume-III is written for the B.E./B.Tech./B. Arch. students of third/fourth semester of Dr. A.P.J. Abdul Kalam Technical University (AKTU) in according to the new syllabus. The book is divided into twenty-five chapters covering all the important topics of the subject. It contains fairly a large number of solved examples from question papers of examinations recently held by different universities and engineering colleges so that the students may not find any difficulty while answering these problems in their final examination.**

**Mathematical Modelling Courses for Engineering Education**  
**Engineering Mathematics**  
**S Chand Higher Engineering Mathematics**  
**Fundamental of Engineering Mathematics Vol-I (Uttarakhand)**

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**Engineering Mathematics, Volume-1  
(For VTU, Karnataka, As Per CBCS)**  
Engineering Mathematics  
Advanced Engineering  
Mathematics S. Chand Publishing  
Engineering Mathematics  
(Conventional and Objective  
Type) completely covers the  
subject of Engineering  
Mathematics for engineering  
students (as per AICTE) as well  
as engineering entrance exams  
such as GATE, IES, IAS and  
Engineering Services Exams.  
Though a first edition, the book is  
enriched by 50 years of  
Academics and professional  
experience of the Author(s) and  
the experience of more than 85



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published books.

This well-received book, now in its second edition, is intended for the undergraduate engineering students of all branches. The book is designed in such a manner that even an average student can comprehend the subject with ease. The text begins with the Fourier series expansions and harmonic analysis. The formation and solution of partial differential equations and their applications in elastic string, one- and two-dimensional heat flow are explained in detail. Also, the book deals with Fourier transforms, including sine and cosine transforms and their properties.

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The text concludes with Z transform and its application in solving difference equations. This new edition includes a large number of carefully selected two-mark questions with their solutions as well as a Question Bank containing important questions from all the chapters.

**KEY FEATURES**

1. Concise and clear presentation of basic concepts
2. Step-by-step derivation of results
3. Variety of problems arranged in a graded manner
4. Practice exercises at the end of each section
5. Answers to unsolved problems

Definitions, Theorems, and Formulas for Reference and

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Review

Select Proceedings of AACMME  
2021

Problems and Solutions in Higher  
Engg. Math Vol-III

Engineering Mathematics-II

Introduction to

Engineering.Mathematics

Vol-1(GBTU)

*Birgit Griese presents  
MP2-Math/Plus, a support  
project for first-year students  
in engineering at Ruhr-  
Universität Bochum that  
aims at preventing  
unnecessary drop-out.  
Conceptualisation and  
development of the project  
follow a design research*

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*approach according to Gravemeijer, Cobb, and van den Akker. The interventions focus on learning strategies which are collected in a pre-post design with the aid of the LIST questionnaire by Wild and Schiefele. These and other data are utilised for the evaluation of MP2-Math/Plus. The results confirm the adaptations of the project procedures in successive cycles, stress the importance of effort and motivation, and assess the success of the project. This book gathers original research papers presented*

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*at the 4th International Conference on Computational Mathematics and Engineering Sciences, held at Akdeniz University, Antalya, Turkey, on 20–22 April 2019. Focusing on computational methods in science, mathematical tools applied to engineering, mathematical modeling and new aspects of analysis, the book discusses the applications of mathematical modelling in areas such as health science, engineering, computer science, social science, and economics. It also describes a wide variety*

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*of analytical, computational, and numerical methods. The conference aimed to foster cooperation between students and researchers in the areas of computational mathematics and engineering sciences, and provide a platform for them to share significant research ideas. This book is a valuable resource for graduate students, researchers and educators interested in the mathematical tools and techniques required for solving various problems arising in science and engineering, and*

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*understanding new methods and uses of mathematical analysis.*

*"Advanced Engineering Mathematics" is written for the students of all engineering disciplines.*

*Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the*

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*student to practice and retain the understanding of otherwise difficult concepts. For B.E./B.Tech. / B.Arch. Students for First Semester of all Engineering Colleges of Maha Maya Technical University, Noida and Gautam Buddha Technical University, Lucknow*

*Advanced Engineering Mathematics, 22e  
Higher Engineering Mathematics  
Engineering Mathematics - 1  
| Fourth Edition | For Anna University | By Pearson  
Introduction to Engineering Mathematics - II*



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(MMTU,GBTU)

## Advanced Engineering Mathematics

*The existing Third Volume of our series of textbooks on Engineering Mathematics for students of B.E., B.Tech. & B.Sc. (Applied Science) has been now split into two volumes, to cater to the needs of the syllabus semester-wise. This volume caters to the syllabus of fourth semester. Many worked examples are added in each chapter and a large number of problems are included in the Exercises.*

*The application of mathematical concepts has proven to be beneficial within a number of different industries. In particular, these*

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*concepts have created significant developments in the engineering field. Mathematical Concepts and Applications in Mechanical Engineering and Mechatronics is an authoritative reference source for the latest scholarly research on the use of applied mathematics to enhance the current trends and productivity in mechanical engineering. Highlighting theoretical foundations, real-world cases, and future directions, this book is ideally designed for researchers, practitioners, professionals, and students of mechatronics and mechanical engineering. For B.E./B.Tech students of Third Semester of Maharshi Dayanand University (MDU). Rohtak and*

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*Kurushetra University, Kurushetra.  
Special Features of the First Edition ::  
Lucid and Simple Language | Large  
number of solved Examples | Tabular  
Explanation of Specific Topics |  
Presentation in a very Systematic and  
Logical manner.*

*This book is a compendium of the  
proceedings of the International  
Conference on Applied Analysis,  
Computation, and Mathematical  
Modelling in Engineering  
(AACMME-2021). The book covers a  
variety of applications such as  
mechanical, acoustical, physical,  
electrical, bio-mathematical, and  
computational fluid dynamics. Since  
mathematical modeling necessitates a  
wide range of skills and methods, the*

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*book concentrates on techniques that will be of specific interest to engineers, scientists, and those who work with discrete and continuous systems models. This book guides students, researchers, and professionals through the new approaches, the powerful tools for quickly mastering the most popular mathematical and computational models used in engineering and science. These new approaches enable readers to not only systematically create effective models, but also extend these models to any macroscopic physical structure.*

*Introduction to Engineering Mathematics - Volume IV*  
*[APJAKTU]*

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*ENGINEERING MATHEMATICS*

*Functional Fractional Calculus*

*Learning Strategies in Engineering*

*Mathematics*

*Applied Mathematics for Scientists*

*and Engineers*

**Almost all the systems in our world--including technical, social, economic, and environmental systems--are becoming interconnected and increasingly complex, and as such they are vulnerable to various risks. Due to this trend, resilience creation is becoming more important to system managers and decision makers, this to ensure sustained performance. In order to be able to ensure an acceptable**

**sustained performance under such interconnectedness and complexity, resilience creation with a system approach is a requirement. Mathematical modeling based approaches are the most common approach for system resilience creation. Mathematical Modelling of System Resilience covers resilience creation for various system aspects including a functional system of the supply chain, overall supply chain systems; various methodologies for modeling system resilience; satellite-based approach for addressing climate related risks, repair-based approach for sustainable performance of an**

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**engineering system, and modeling measures of the reliability for a vertical take-off and landing system. Each of the chapters contributes state-of-the-art research for the relevant resilience related topic covered in the chapter. Technical topics covered in the book include:**

- Supply chain risk, vulnerability and disruptions**
- System resilience for containing failures and disruptions**
- Resiliency considering frequency and intensities of disasters**
- Resilience performance index**
- Resiliency of electric Traction system**
- Degree of resilience**
- Satellite observation and hydrological risk**
- Latitude of**

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**Resilience On-line repair for  
resilience Reliability design for  
Vertical Takeoff and landing  
Prototype**

**What sets this volume apart from other mathematics texts is its emphasis on mathematical tools commonly used by scientists and engineers to solve real-world problems. Using a unique approach, it covers intermediate and advanced material in a manner appropriate for undergraduate students. Based on author Bruce Kusse's course at the Department of Applied and Engineering Physics at Cornell University, Mathematical Physics begins with essentials such as vector and tensor algebra,**



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**curvilinear coordinate systems, complex variables, Fourier series, Fourier and Laplace transforms, differential and integral equations, and solutions to Laplace's equations. The book moves on to explain complex topics that often fall through the cracks in undergraduate programs, including the Dirac delta-function, multivalued complex functions using branch cuts, branch points and Riemann sheets, contravariant and covariant tensors, and an introduction to group theory. This expanded second edition contains a new appendix on the calculus of variation -- a valuable addition to the already superb**

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**collection of topics on offer. This is an ideal text for upper-level undergraduates in physics, applied physics, physical chemistry, biophysics, and all areas of engineering. It allows physics professors to prepare students for a wide range of employment in science and engineering and makes an excellent reference for scientists and engineers in industry. Worked out examples appear throughout the book and exercises follow every chapter. Solutions to the odd-numbered exercises are available for lecturers at [www.wiley-vch.de/textbooks/](http://www.wiley-vch.de/textbooks/). As the role of the modern**

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**engineer is markedly different from that of even a decade ago, the theme of engineering mathematics education (EME) is an important one. The need for mathematical modeling (MM) courses and consideration of the educational impact of computer-based technology environments merit special attention. This book contains the proceeding of the NATO Advanced Research Workshop held on this theme in July 1993. We have left the industrial age behind and have entered the information age. Computers and other emerging technologies are penetrating society in depth and gaining a strong influence in determining**

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**how in future society will be organised, while the rapid change of information requires a more qualified work force. This work force is vital to high technology and economic competitive ness in many industrialised countries throughout the world. Within this framework, the quality of EME has become an issue. It is expected that the content of mathematics courses taught in schools of engineering today have to be re-evaluated continuously with regard to computer-based technology and the needs of mod ern information society. The main aim of the workshop was to pro vide a**

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**forum for discussion between mathematicians, engineering scientists, mathematics educationalists, and courseware developers in the higher education sector and to focus on the issues and problems of the design of more relevant and appropriate MM courses for engineering education. For B.E./ B.Tech/B.Arch. Students for first semester of all Engineering Colleges of Utrakhand, Dehradun (Unified Syllabus). As per the syllabus 2006-07 and onwards. The subject matter is presented in a very systematic and logical manner. The book contains fairly large number of solved examples**

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**from question papers of  
examinations recently conducted  
by different universities  
Mathematical Handbook for  
Scientists and Engineers  
Applied Mathematical Methods:  
Mathematical Modelling of  
System Resilience**

## **Mathematical Physics**

For Engineering students & also useful for competitive Examination. Keeping in view the limited time at the disposal of engineering students preparing for university examination, the book contains fairly large number of solved examples taken from various recently examination papers of different universities and Engineering

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colleges so that they may not find any difficulty while answering these problems in their final examination. Latest question papers upto summer 2006 of A.M.I.E. have been added for the readers to understand the latest trend.

Convenient access to information from every area of mathematics: Fourier transforms, Z transforms, linear and nonlinear programming, calculus of variations, random-process theory, special functions, combinatorial analysis, game theory, much more.

Appropriate for one- or two-semester Advanced Engineering Mathematics courses in departments of Mathematics and Engineering. This clear,

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pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need to know.

Equally effective as either a textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style offering easy accessibility and frequent opportunities for application and reinforcement.

Applied Analysis, Computation and  
Mathematical Modelling in



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Engineering

Mathematical Foundations of  
Elasticity

A Textbook of Engineering

Mathematics Vol-II (MDU, Krukshet

Engineering Mathematics : Anna-

USDP

Engineering Mathematics ( Amie  
Diploma Stream )

The book covers the syllabus completely and exhaustively. The five units of the syllabus are presented in the five chapters that make up this book .Each topic of the subject discussed presents the important principles, methods and processes of obtaining results in a systematic way with emphasis on clarity and academic rigour. A lot of standard problems and frequently asked university questions have been

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worked out in detail for the students' benefit. Exercise problems are given with hints, wherever necessary. Further, a supplement of Frequently Asked Questions and Answers is provided along with the book. Engineering Mathematics with Examples and Applications provides a compact and concise primer in the field, starting with the foundations, and then gradually developing to the advanced level of mathematics that is necessary for all engineering disciplines. Therefore, this book's aim is to help undergraduates rapidly develop the fundamental knowledge of engineering mathematics. The book can also be used by graduates to review and refresh their mathematical skills. Step-by-step worked examples will help the students gain more insights and build

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sufficient confidence in engineering mathematics and problem-solving. The main approach and style of this book is informal, theorem-free, and practical. By using an informal and theorem-free approach, all fundamental mathematics topics required for engineering are covered, and readers can gain such basic knowledge of all important topics without worrying about rigorous (often boring) proofs. Certain rigorous proof and derivatives are presented in an informal way by direct, straightforward mathematical operations and calculations, giving students the same level of fundamental knowledge without any tedious steps. In addition, this practical approach provides over 100 worked examples so that students can see how each step of

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mathematical problems can be derived without any gap or jump in steps. Thus, readers can build their understanding and mathematical confidence gradually and in a step-by-step manner. Covers fundamental engineering topics that are presented at the right level, without worry of rigorous proofs Includes step-by-step worked examples (of which 100+ feature in the work) Provides an emphasis on numerical methods, such as root-finding algorithms, numerical integration, and numerical methods of differential equations Balances theory and practice to aid in practical problem-solving in various contexts and applications

Introduction to Engineering Mathematics - Volume IV has been thoroughly revised according to the New Syllabi (2018 onwards) of Dr.

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A.P.J. Abdul Kalam Technical University (AKTU, Lucknow). The book contains 13 chapters divided among five modules - Partial Differential Equations, Applications of Partial Differential Equations, Statistical Techniques - I, Statistical Techniques - II and Statistical Techniques - III.

Graduate-level study approaches mathematical foundations of three-dimensional elasticity using modern differential geometry and functional analysis. It presents a classical subject in a modern setting, with examples of newer mathematical contributions. 1983 edition.

Let Us C: Authentic Guide to C PROGRAMMING Language 17th Edition (English Edition)

Introduction to Engineering Mathematics - Volume III [APJAKTU] Conceptualisation, Development, and

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Evaluation of MP2-MathePlus  
A Textbook on Engineering  
Mathematics -1(MDU,Krukshetra)  
Engineering Mathematics Vol -III (  
Tamil Nadu)

*Learn the hand-crafted notes on  
C programming Key Features  
Strengthens the foundations, as  
a detailed explanation of  
programming language  
concepts are given Lucid  
explanation of the concept Well  
thought-out, fully working  
programming examples End-of-  
chapter exercises that would  
help you practice the skills  
learned in the chapter Hand-  
crafted "KanNotes" at the end  
of the each chapter that would*

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*help the reader remember and revise the concepts covered in the chapter Focuses on how to think logically to solve a problem Description The new edition of this classic book has been thoroughly revamped, but remains faithful to the principles that have established it as a favourite amongst students, teachers and software professionals round the world. "Simplicity"- that has been the hallmark of this book in not only its previous sixteen English editions, but also in the Hindi, Gujrati, Japanese, Korean, Chinese and US editions. This book doesn't assume any*

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*programming background. It begins with the basics and steadily builds the pace so that the reader finds it easy to handle advanced topics towards the end of the book. What will you learn C Instructions Decision Control Instruction, Loop Control Instruction, Case Control Instruction Functions, Pointers, Recursion Data Types, The C Preprocessor Arrays, Strings Structures, Console Input/Output, File Input/Output Who this book is for Students, Programmers, researchers, and software developers who wish to learn the basics of C++ programming language.*



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*Contents* 1. Getting Started 2. C Instructions 3. Decision Control Instruction 4. More Complex Decision Making 5. Loop Control Instruction 6. More Complex Repetitions 7. Case Control Instruction 8. Functions 9. Pointers 10. Recursion 11. Data Types Revisited 12. The C Preprocessor 13. Arrays 14. Multidimensional Arrays 15. Strings 16. Handling Multiple Strings 17. Structures 18. Console Input/Output 19. File Input/Output 20. More Issues In Input/Output 21. Operations On Bits 22. Miscellaneous Features 23. Interview FAQs Appendix A-Compilation and Execution

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*Appendix B- Precedence Table  
Appendix C- Chasing the Bugs  
Appendix D- ASCII Chart  
Periodic Tests I to IV, Course  
Tests I, II Index About the  
Authors Through his books and  
Quest Video Courses on C,  
C++, Java, Python, Data  
Structures, .NET, IoT, etc.  
Yashavant Kanetkar has  
created, molded and groomed  
lacs of IT careers in the last  
three decades. Yashavant's  
books and Quest videos have  
made a significant contribution  
in creating top-notch IT  
manpower in India and abroad.  
Yashavant's books are globally  
recognized and millions of*

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*students/professionals have benefitted from them.*

*Yashavant's books have been translated into Hindi, Gujarati, Japanese, Korean and Chinese languages. Many of his books are published in India, USA, Japan, Singapore, Korea and China. Yashavant is a much sought after speaker in the IT field and has conducted seminars/workshops at TedEx, IITs, IIITs, NITs and global software companies. Yashavant has been honored with the prestigious "Distinguished Alumnus Award" by IIT Kanpur for his entrepreneurial, professional and academic*

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*excellence. This award was given to top 50 alumni of IIT Kanpur who have made a significant contribution towards their profession and betterment of society in the last 50 years.*

*His Linkedin profile: [linkedin.com/in/yashavant-kanetkar-9775255](https://www.linkedin.com/in/yashavant-kanetkar-9775255)*

*This book has been thoroughly revised according to the New Syllabus of Uttar Pradesh Technical University (UPTU), Lucknow. [ For B.E. / B.Tech. / B.Arch. Students for second semester of all Engineering Colleges of Uttar Pradesh Technical University (UPTU). Lucknow ]*

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*This book is primarily written according to the syllabi for B.E./B.Tech. Students for I sem. of MDU, Rohtak and Kurushetra University . Special Features : Lucid and Simple Language | Objective Types Questions | Large Number of Solved Examples | Tabular Explanation of Specific Topics | Presentation in a very Systematic and logical manner. Applied Mathematical Methods covers the material vital for research in today's world and can be covered in a regular semester course. It is the consolidation of the efforts of teaching the compulsory first*

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*semester post-graduate applied mathematics course at the Department of Mechanical Engineering at IIT Kanpur in two successive years.*

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