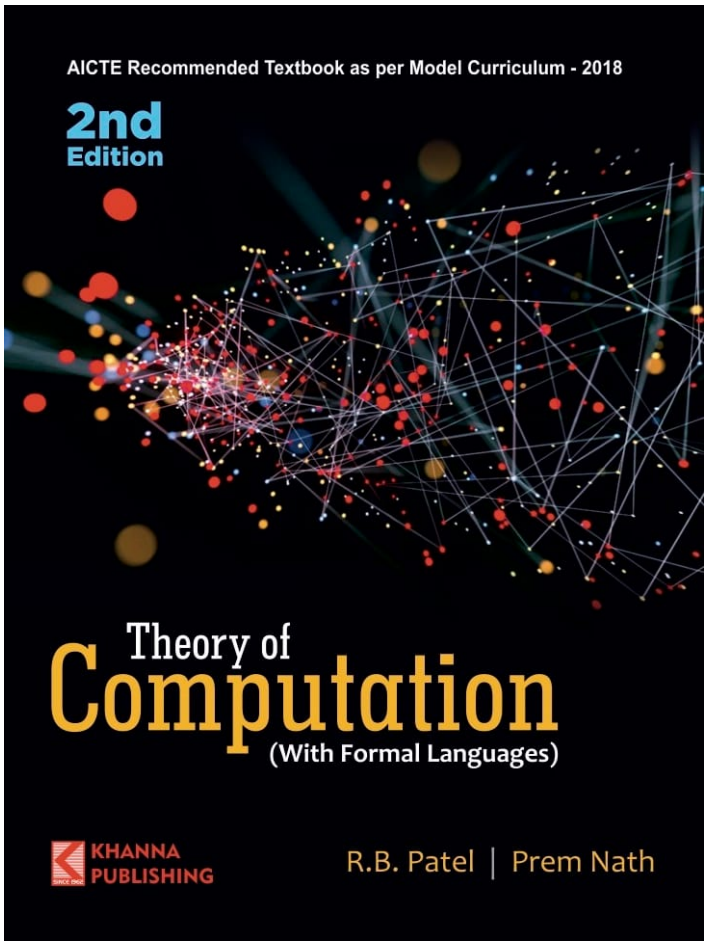

Theory of Computation (With Formal Languages)

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Product Description

This book has very simple and practical approach to make the understood the concept of automata theory and languages well. There are many solved descriptive problems and objective (multiple choices) questions, which is a unique feature of this book. The multiple choice questions provide a very good platform for the readers to prepare for various competitive exams.

Table of Contents

Chapter 1: Preliminaries Used in Theory of Computation Chapter 2: Introduction to Finite Automata Chapter 3: Finite State Machines (Transducers) Chapter 4: Grammars and Languages Chapter 5: Regular Expressions, Regular Languages and Finite Automata Chapter 6: Context-free Grammars and Languages Chapter 7: Pushdown Automata and Parsing Techniques Chapter 8: Turing Machine Chapter 9: Computability and Recognizability of Turing Machine Chapter 10: Decidability and Undecidability Chapter 11: Introduction to Computational Complexity

Author

R.B. Patel

Prof. Ram Bahadur Patel, Professor, Department of Computer Science and Engineering, Chandigarh College of Engineering and Technology, U. T. Administration Chandigarh, earlier he was Professor at NIT Uttarakhand, graduated from Madan Mohan Malaviya Engineering College Gorakhpur in Computer Engineering in the year 1991. He did M.S. from BITS Pilani in the year 1996. He obtained his Ph.D. from the Indian Institute of Technology, Roorkee in the field of Distributed Computing and PDF in Reliable Computing from Athens Greece in the year 2005. He has supervised 18 PhD thesis and 42 M. Tech. dissertation. He has 4 Patents (1 US and 3 Indian) to his credit. He has published more than 190 research paper in International/National Journals and Conferences. He has organized 7 International Conferences/Seminars. He has edited 5 Scopus indexed Journal/Proceedings of National and International publishers, viz. Springer Verlag, American Institute of Physics etc. He has authored 7 Books on Data Structures, Automata Theory, etc.

Prem Nath Prem Nath has completed his B.E. (Computer Science and Engineering) from G.B. Pant Engineering College (H.N.B. garwal University)- Uttrakhand in 2000. He has worked in AICTE approved Engineering Colleges at Dehradun and Roorkee for 3 years. At present, he is working as Examiner of patents and Designs at the Patent Office, Kolkata. His work is to examine the patent Applications for which patent is to be ascertained in the field of Computer Science and Technology (Indian patent Act 1970 as amended in 2005). In brief, his work is based on examination of technical advancement as well as the legal aspect (The patent Act 1970 as amended in 2005). He has attended training at the Japan patent office, Tokyo, Japan in the field of "Computer programs" in Year 2007 sponsored by World Intellectual property organization (WIPO), also attended training time to time arranged by Patent Offices in Collaboration with many foreign bodies like, European patent Office (EPO), US patent and Trade marks office (USPTO), etc.

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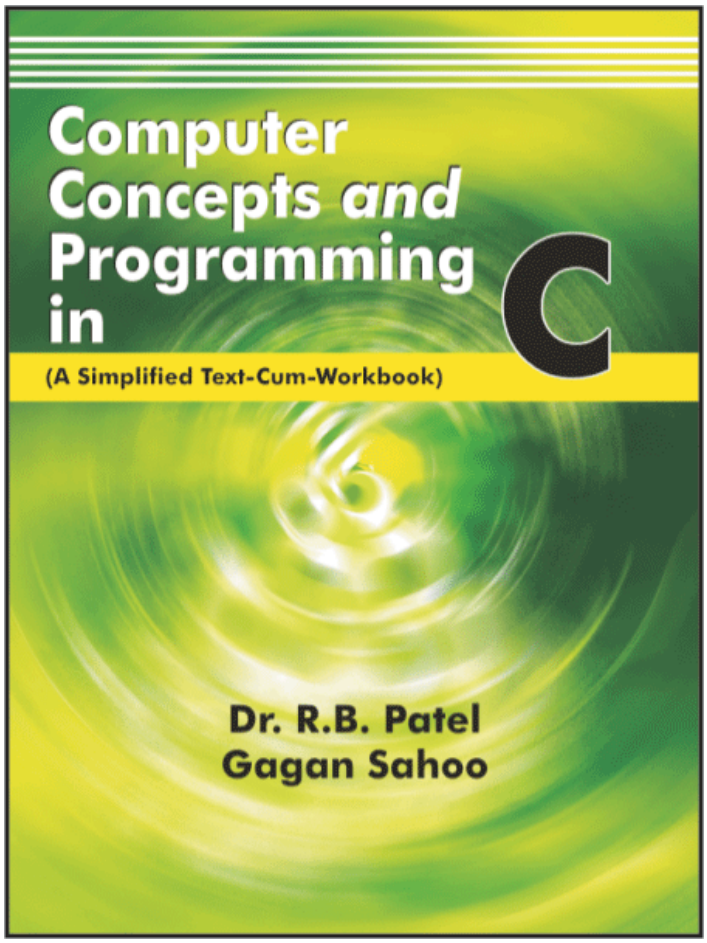

Computer Concepts and Programming in C

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Product Description

The book is written and designed keeping in mind following objectives for the students to understand the basic concepts of computing, to understand the basic concepts of operating system and number systems, to understand the methodology of problem solving, to develop skill in programming using C language. Cover detailed theory supplemented with appropriate figures and examples. Step-by-step instructions for doing practical training purpose. solved and unsolved examples at the end of each chapter. Provides proper testing tools for better learning. Provides user friendly approach.

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Chapter 1: Computer Concepts Chapter 2: Operating System Concepts Chapter 3: Number Systems Chapter 4: Programming Algorithms Chapter 5: Overview of C Language Chapter 6: Operators and expressions Chapter 7: Conditional Program Execution Chapter 8: Program loops and iteration Chapter 9: Characters I/O Functions Chapter 10: Arrays and Strings Chapter 11: C Standard Library Function Chapter 12: User defined functions Chapter 13: Structures Chapter 14: Pointers Chapter 15: Linked lists and stacks Chapter 16: C processor derivates Chapter 17: File operations in C

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Gagan Sahoo Gagan Sahoo This well -organized and comprehensive book offers a detailed coverage on Visual Basic Programming concept. It contains a rich collection of examples, exercises and project based concepts. This book concentrates on the principles of good software engineering and stresses program clarity. without assuming and background knowlwdge of programming, this book teaches VB language using carefully graded approach. The book covers easy-to understand steps, from simple programs to sophisticated ones that demonstrate VBs power for programming development. Using this book you can create different application statring from desktop application; database Handling to Internet based programming. The book contains 100's source codes in different chapters in CD. He has more that 15 Years of experience in the computer field working as a software developer, director of software development. He is a well-known author of various computer books including, VB, C++, Java. Since last 10 years, he has lots of experience in different computer project works. He has written number of project books including Foxpro, C, C++, Vb, etc. He associates Mr. Arvind Kumar working as co-author in various technical projects in .NET technology. He has been Programming in various .NET project and tested so many code on Microsoft's .NET environment. His prime development of Beginner's Guide to VB, C# 2005 (with.NET 3.0), ASP.NET, VB.NET, etc. Which was written to fullfil the need and development guide for the students and developers.

Expert Data Structures with C++ (w/CD)

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Product Description

This text on data structures is for the beginners and expert programmers, who whish to enjoy the salient features of the subject in depth. The book covers all the popular data structures through emphasizing on the efficient algorithm development and implementing them in C++ with latest language features. Moreover , everything has been explained through self-explanatory figures. Fundamental techniques are developed in depth and are fully supported with program examples, Stong emphasis on exercises and examples throughout the text.

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Chapter 1: Introduction Chapter 2: Recursion Chapter 3: String Manipulation Pattern Matching Chapter 4: Arrays Chapter 5: Linked List Chapter 6:Stacks & Queues Chapter 7: Trees Chapter 8: Graphs Chapter 9: Sorting & Searching

Author

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Prof. Ram Bahadur Patel, Professor, Department of Computer Science and Engineering, Chandigarh College of Engineering and Technology, U. T. Administration Chandigarh, earlier he was Professor at NIT Uttarakhand, graduated from Madan Mohan Malaviya Engineering College Gorakhpur in Computer Engineering in the year 1991. He did M.S. from BITS Pilani in the year 1996. He obtained his Ph.D. from the Indian Institute of Technology, Roorkee in the field of Distributed Computing and PDF in Reliable Computing from Athens Greece in the year 2005. He has supervised 18 PhD thesis and 42 M. Tech. dissertation. He has 4 Patents (1 US and 3 Indian) to his credit. He has published more than 190 research paper in International/National Journals and Conferences. He has organized 7 International Conferences/Seminars. He has edited 5 Scopus indexed Journal/Proceedings of National and International publishers, viz. Springer Verlag, American Institute of Physics etc. He has authored 7 Books on Data Structures, Automata Theory, etc. </p

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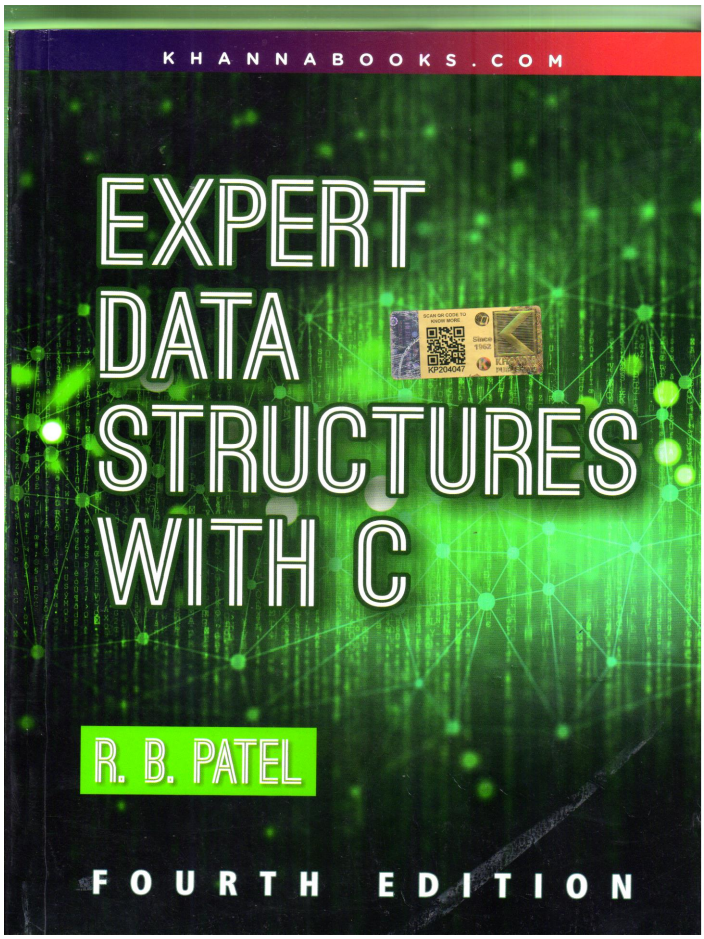

Expert Data Structure with C

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Product Description

This book starts with the fundamentals of data structures and finally lead to the muchdetailed discussion on the subject. The very first chapter introduces the readers with elementary concepts of C as type conversions, structures, pointers, dynamic memory management, functions, flow-chart, algorithm and fundamental of data structures. This textbook covers the syllabus of Semester College course on data structures. It provides both a strong theoretical base in data structures and an advanced approach to their representation in C. The text is useful to C professionals and programmers, as well as students of any branch of Engineering of graduate and postgraduate courses. The data structures are presented with in the context of complete working programs that have been tested both on a UNIX system and a personal computer using Turbo-C++, Compiler. The code is developed in a top-down fashion, typically with the low-level data structures implementation following the high-level application code. This approach foster good programming habits and makes subject matter more interesting. The book has three goals- to develop a consistent programming methodology, to develop data structures access techniques and to introduce algorithms. The bulk of the text is developed to make a strong hold on data structures. Programming style and development methodology are introduced and its applications are presented. This has the advantage of allowing the reader to concentrate on the data structures, while illustrating how good practices make programming easier.

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Chapter 1 : Basics of Data Structures & Programming Language ‘C’ Chapter 2 : Recursion Chapter 3 : String Manipulation And Pattern Matching Chapter 4 : Arrays Chapter 5 : Linked List Chapter 6 : Stacks And Queues Chapter 7 : Trees Chapter 8 : Graphs Chapter 9 : Sorting And Searching Chapter 10 : File Structures Chapter 11 : Variants of B-Tree INDEX

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