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Artificial neural networks and genetic algorithms both are areas of research which have their origins in mathematical models constructed in order to gain understanding of important natural processes. By focussing on the process models rather than the processes themselves, significant new computational techniques have evolved which have found

application in a large number of diverse fields. This diversity is reflected in the topics which are subjects of the contributions to this volume. There are contributions reporting successful applications of the technology to the solution of industrial/commercial problems. This may well reflect the maturity of the technology, notably in the sense that 'real' users of modelling/prediction techniques are prepared to accept neural networks

as a valid paradigm. Theoretical issues also receive attention, notably in connection with the radial basis function neural network.

Contributions in the field of genetic algorithms reflect the wide range of current applications, including, for example, portfolio selection, filter design, frequency assignment, tuning of nonlinear PID controllers. These techniques are also used extensively for combinatorial optimisation problems.

Computer Networks: A Systems Approach, Fifth Edition, explores the key principles of computer networking, with examples drawn from the real world of network and protocol design. Using the Internet as the primary example, this best-selling and classic textbook explains various protocols and networking technologies. The systems-oriented approach encourages students to think about how individual network components fit into a

larger, complex system of interactions. This book has a completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, network security, and network applications such as e-mail and the Web, IP telephony and video streaming, and peer-to-peer file sharing. There is now increased focus on application layer issues where innovative and exciting research and

design is currently the center of attention. Other topics include network design and architecture; the ways users can connect to a network; the concepts of switching, routing, and internetworking; end-to-end protocols; congestion control and resource allocation; and end-to-end data. Each chapter includes a problem statement, which introduces issues to be examined; shaded sidebars that elaborate on a topic or introduce a

related advanced topic; What's Next? discussions that deal with emerging issues in research, the commercial world, or society; and exercises. This book is written for graduate or upper-division undergraduate classes in computer networking. It will also be useful for industry professionals retraining for network-related assignments, as well as for network practitioners seeking to understand the workings of network protocols and the big

***picture of networking.
Completely updated
content with expanded
coverage of the topics of
utmost importance to
networking professionals
and students, including
P2P, wireless, security,
and applications
Increased focus on
application layer issues
where innovative and
exciting research and
design is currently the
center of attention Free
downloadable network
simulation software and
lab experiments manual
available***

Many books on reliability focus on either modeling or statistical analysis and require an extensive background in probability and statistics. Continuing its tradition of excellence as an introductory text for those with limited formal education in the subject, this classroom-tested book introduces the necessary concepts in probability and statistics within the context of their application to reliability. The Third Edition adds brief discussions of the Anderson-Darling test,

the Cox proportionate hazards model, the Accelerated Failure Time model, and Monte Carlo simulation. Over 80 new end-of-chapter exercises have been added, as well as solutions to all odd-numbered exercises. Moreover, Excel workbooks, available for download, save students from performing numerous tedious calculations and allow them to focus on reliability concepts. Ebeling has created an exceptional text that

enables readers to learn how to analyze failure, repair data, and derive appropriate models for reliability and maintainability as well as apply those models to all levels of design.

Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional

application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web

***development. Create
webpage templating
system for rendering
dynamic data Dive into
request and response
objects, middleware, and
URL routing Simulate a
production environment
for testing and
development Focus on
persistence with
document databases,
particularly MongoDB
Make your resources
available to other
programs with RESTful
APIs Build secure apps
with authentication,
authorization, and HTTPS***

Integrate with social media, geolocation, and other third-party services

Implement a plan for launching and maintaining your app

Learn critical debugging skills This book covers

Express 4.0.

Leveraging the JavaScript Stack

Learning SQL

Discrete Mathematics

Data Structures and

Algorithms in Python

Programming in Basic

Recent Trends :

Proceedings of the Indian

Computing Congress Held

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at Hyderabad During November 22-24, 1990

The Book of R is a comprehensive, beginner-friendly guide to R, the world's most popular programming language for statistical analysis. Even if you have no programming experience and little more than a grounding in the basics of mathematics, you'll find everything you need to begin using R effectively for statistical analysis. You'll start with the basics, like how to handle data and write simple programs, before moving on to more advanced

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topics, like producing statistical summaries of your data and performing statistical tests and modeling. You'll even learn how to create impressive data visualizations with R's basic graphics tools and contributed packages, like ggplot2 and ggvis, as well as interactive 3D visualizations using the rgl package.

Dozens of hands-on exercises (with downloadable solutions) take you from theory to practice, as you learn: -The fundamentals of programming in R, including

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how to write data frames, create functions, and use variables, statements, and loops –Statistical concepts like exploratory data analysis, probabilities, hypothesis tests, and regression modeling, and how to execute them in R –How to access R's thousands of functions, libraries, and data sets –How to draw valid and useful conclusions from your data –How to create publication-quality graphics of your results Combining detailed explanations with real-world examples and exercises, this

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book will provide you with a solid understanding of both statistics and the depth of R's functionality. Make The Book of R your doorway into the growing world of data analysis.

The design and analysis of efficient data structures has long been recognized as a key component of the Computer Science curriculum. Goodrich, Tomassia and Goldwasser's approach to this classic topic is based on the object-oriented paradigm as the framework of choice for the design of data structures. For

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each ADT presented in the text, the authors provide an associated Java interface. Concrete data structures realizing the ADTs are provided as Java classes implementing the interfaces. The Java code implementing fundamental data structures in this book is organized in a single Java package, `net.datastructures`. This package forms a coherent library of data structures and algorithms in Java specifically designed for educational purposes in a way that is complimentary with the Java Collections

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Framework.

This compact book presents a clear and thorough introduction to the object-oriented paradigm using the C++ language. It introduces the readers to various C++ features that support object-oriented programming (OOP) concepts. In an easy-to-comprehend format, the text teaches how to start and compile a C++ program and discusses the use of C++ in OOP. The book covers the full range of object-oriented topics, from the fundamental features through classes, inheritance, polymorphism,

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template, exception handling and standard template library. KEY FEATURES □ Includes several pictorial descriptions of the concepts to facilitate better understanding. □ Offers numerous class-tested programs and examples to show the practical application of theory. □ Provides a summary at the end of each chapter to help students in revising all key facts. The book is designed for use as a text by undergraduate students of engineering, undergraduate and postgraduate students

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of computer applications,
and postgraduate students
of management.

Selection of papers
presented at the Third Indian
Computing Congress.

Bioethanol

Linear Algebra and Its
Applications, Global Edition

Data Structures and
Algorithms in Java

The Bulgarian C# Book

Conjugated Polymers And
Oligomers: Structural And
Soft Matter Aspects

*Learn key topics such as language
basics, pointers and pointer
arithmetic, dynamic memory
management, multithreading, and*

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network programming. Learn how to use the compiler, the make tool, and the archiver.

This book presents high-quality, peer-reviewed papers from the FICR International Conference on Rising Threats in Expert Applications and Solutions 2020, held at IIS University Jaipur, Rajasthan, India, on January 17–19, 2020. Featuring innovative ideas from researchers, academics, industry professionals and students, the book covers a variety of topics, including expert applications and artificial intelligence/machine learning; advanced web technologies, like IoT, big data, and cloud computing in expert

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applications; information and cybersecurity threats and solutions; multimedia applications in forensics, security and intelligence; advances in app development; management practices for expert applications; and social and ethical aspects of expert applications in applied sciences.

This new book, Bioethanol: Biochemistry and Biotechnological Advances, presents some insightful perspectives and important advances in the bioethanol industry. The volume goes into detail on the biochemical and physiological parameters carried out by the main bioethanol-producing microorganisms as well as the

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*discusses the potential applications that bioproducts can have and the advantages they generate. The chapter authors discuss a variety of issues, including the physiology of ethanol production by yeasts, by *Zymomonas mobilis*, and by *Clostridium thermocellum*. Other sources of biofuel, such as sweet sorghum, *Agave americana* L. leaves waste, and fungi are included as well. Chapters also discuss the genetic regulation and genetic engineering of principal microorganisms and then go on to address ways to increase ethanol tolerance in industrially important ethanol fermenting organisms, methods for developing sustainable*

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fermentable substrates, and new strategies for ethanol purification. Chapters explore the design and engineering requirements for bioreactors, bioelectrosynthesis of ethanol via bioelectrochemical systems, and more. The book will be a valuable resource for faculty and students in this area as well as for scientists, researchers, and managers in the biofuel industry in the area of biofuel production, fermentation process, environmental engineering and all other related scientific areas.

*Only Doyle's C# PROGRAMMING:
FROM PROBLEM ANALYSIS TO
PROGRAM DESIGN, 4E,
International Edition brilliantly*

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balances today's most important programming principles and concepts with the latest insights into C#. This perfect introductory book highlights the latest Visual Studio® 2012 and C# 4.0 with a unique, principles-based approach to give readers a deep understanding of programming. You'll find just the right amount of detail to create an important foundation in programming. This edition's straightforward approach and understandable vocabulary make it easier for readers to grasp new programming concepts without distraction. The book introduces a variety of fundamental programming concepts, from data

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types and expressions to arrays and collections, all using the popular C# language. New programming exercises and new numbered examples throughout this edition reflect the latest updates in Visual Studio® 2012, while learning objectives, case studies and Coding Standards summaries in each chapter ensure mastery. While the book assumes no prior programming knowledge, coverage extends beyond traditional books to cover new advanced topics, such as portable class libraries used to create applications for Windows® Phone and other platforms.

Head First C

From Problem Analysis to Program

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Design

*Artificial Intelligence for Data-
Driven Medical Diagnosis*

Biogas Production

Programming with JAVA - A Primer

Java Programming

The classic, landmark work on software testing. The hardware and software of computing have changed markedly in the three decades since the first edition of *The Art of Software Testing*, but this book's powerful underlying analysis has stood the test of time. Whereas most books on software testing target particular development techniques, languages, or testing methods, *The Art of Software Testing, Third Edition* provides a brief but powerful and

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comprehensive presentation of time-proven software testing approaches. If your software development project is mission critical, this book is an investment that will pay for itself with the first bug you find. The new Third Edition explains how to apply the book's classic principles to today's hot topics including: Testing apps for iPhones, iPads, BlackBerrys, Androids, and other mobile devices Collaborative (user) programming and testing Testing for Internet applications, e-commerce, and agile programming environments Whether you're a student looking for a testing guide you'll use for the rest of your career, or an IT manager overseeing a software development team, The Art of Software Testing,

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Third Edition is an expensive book that will pay for itself many times over.

Based on the authors' market leading data structures books in Java and C++, this textbook offers a comprehensive, definitive introduction to data structures in Python by authoritative authors. Data Structures and Algorithms in Python is the first authoritative object-oriented book available for the Python data structures course. Designed to provide a comprehensive introduction to data structures and algorithms, including their design, analysis, and implementation, the text will maintain the same general structure as Data Structures and Algorithms in Java and Data

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Structures and Algorithms in C++.
Programming with JAVA, 3e,
incorporates all the updates and
enhancements added to JAVA 2 and
J2SE 5.0 releases. The book presents
the language concepts in extremely
simple and easy-to-understand style
with illustrations and examples
wherever necessary. **Salient Features**
Fully explains the entire Java
language. Discusses Java's unique
features such as packages a
interfaces. Shows how to create and
implement applets. Illustrates the use
of advanced concepts like
multithread and graphics. Covers
exception handling in depth.
Debugging exercises and two full-
fledged projects. Includes model
questions from the Sun Certified

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JAVA Programmer Exam.

Discover practical solutions for a wide range of real-world network programming tasks About This Book Solve real-world tasks in the area of network programming, system/networking administration, network monitoring, and more. Familiarize yourself with the fundamentals and functionalities of SDN Improve your skills to become the next-gen network engineer by learning the various facets of Python programming Who This Book Is For This book is for network engineers, system/network administrators, network programmers, and even web application developers who want to solve everyday network-related problems. If you are a novice, you

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will develop an understanding of the concepts as you progress with this book. What You Will Learn Develop TCP/IP networking client/server applications Administer local machines' IPv4/IPv6 network interfaces Write multi-purpose efficient web clients for HTTP and HTTPS protocols Perform remote system administration tasks over Telnet and SSH connections Interact with popular websites via web services such as XML-RPC, SOAP, and REST APIs Monitor and analyze major common network security vulnerabilities Develop Software-Defined Networks with Ryu, OpenDaylight, Floodlight, ONOS, and POX Controllers Emulate simple and complex

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networks with Mininet and its extensions for network and systems emulations Learn to configure and build network systems and Virtual Network Functions (VNF) in heterogeneous deployment environments Explore various Python modules to program the Internet In Detail Python Network Programming Cookbook - Second Edition highlights the major aspects of network programming in Python, starting from writing simple networking clients to developing and deploying complex Software-Defined Networking (SDN) and Network Functions Virtualization (NFV) systems. It creates the building blocks for many practical web and networking applications that rely on

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various networking protocols. It presents the power and beauty of Python to solve numerous real-world tasks in the area of network programming, network and system administration, network monitoring, and web-application development. In this edition, you will also be introduced to network modelling to build your own cloud network. You will learn about the concepts and fundamentals of SDN and then extend your network with Mininet. Next, you'll find recipes on Authentication, Authorization, and Accounting (AAA) and open and proprietary SDN approaches and frameworks. You will also learn to configure the Linux Foundation networking ecosystem and deploy

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and automate your networks with Python in the cloud and the Internet scale. By the end of this book, you will be able to analyze your network security vulnerabilities using advanced network packet capture and analysis techniques. Style and approach This book follows a practical approach and covers major aspects of network programming in Python. It provides hands-on recipes combined with short and concise explanations on code snippets. This book will serve as a supplementary material to develop hands-on skills in any academic course on network programming. This book further elaborates network softwarization, including Software-Defined Networking (SDN), Network

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Functions Virtualization (NFV), and orchestration. We learn to configure and deploy enterprise network platforms, develop applications on top of them with Python.

Object-oriented Programming with C++

**OBJECT-ORIENTED
PROGRAMMING USING C++**

Numerical Methods

A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics

**Innovative Applications in
Computing**

Web Development with Node and Express

This revision of Dr. D.S. Malik's successful Java Programming text will guarantee a student's success in the CSI course by using detailed programming

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examples and color-coded programming codes.

Do you want to build web pages but have no prior experience? This friendly guide is the perfect place to start. You'll begin at square one, learning how the web and web pages work, and then steadily build from there. By the end of the book, you'll have the skills to create a simple site with multicolumn pages that adapt for mobile devices. Each chapter provides exercises to help you learn various techniques and short quizzes to make sure you understand key concepts. This thoroughly revised edition is ideal for students and professionals of all backgrounds and skill levels. It is simple and clear enough for beginners, yet thorough enough to be a useful reference for experienced developers keeping their skills up to date. Build HTML pages with text, links, images, tables, and forms Use style sheets

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(CSS) for colors, backgrounds, formatting text, page layout, and even simple animation effects Learn how JavaScript works and why the language is so important in web design Create and optimize web images so they'll download as quickly as possible NEW! Use CSS Flexbox and Grid for sophisticated and flexible page layout NEW! Learn the ins and outs of Responsive Web Design to make web pages look great on all devices NEW! Become familiar with the command line, Git, and other tools in the modern web developer's toolkit NEW! Get to know the super-powers of SVG graphics

Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn: 1534970746 This gentle introduction to discrete mathematics is written for first

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and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support active, inquiry based learning. While there are many fine discrete math textbooks available, this text

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has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and free electronic editions. This third edition brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at discrete.openmathbooks.org

An overview of the programming language's fundamentals covers syntax, initialization, implementation, classes, error handling, objects, applets, multiple threads, projects, and network programming.

*Numerical Methods for Evolutionary
Differential Equations
Advances in Food Bioproducts and
Bioprocessing Technologies*

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Learning Web Design

C# Programming

Proceedings of FICR-TEAS 2020

Syntheses, Strategies and Applications

Develops, analyses, and applies numerical methods for evolutionary, or time-dependent, differential problems. The book explores and exploits the synergy and boundary between biotechnology, bioprocessing and food engineering. Divided into three parts, *Advances in Food Bioproducts and Bioprocessing Technologies* includes contributions that deal with new developments in procedures, bioproducts, and bioprocesses that can be given quantitative expression. Its 40 chapters will describe how research results can be used in engineering design, include procedures to produce food additives and ingredients, and discuss accounts

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of experimental or theoretical research and recent advances in food bioproducts and bioprocessing technologies.

This book focuses on biogas production by anaerobic digestion, which is the most popular bioenergy technology of today. Using anaerobic digestion for the production of biogas is a sustainable approach that simultaneously also allows the treatment of organic waste. The energy contained in the substrate is released in the form of biogas, which can be employed as a renewable fuel in diverse industrial sectors. Although biogas generation is considered an established process, it continues to evolve, e.g. by incorporating modifications and improvements to increase its efficiency and its downstream applications. The

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chapters of this book review the progress made related to feedstock, system configuration and operational conditions. It also addresses microbial pathways utilized, as well as storage, transportation and usage of biogas.

This book is an up-to-date resource for scientists and students working on improving biogas production.

Programming in ANSI C
Rising Threats in Expert Applications and Solutions
Proceedings of FICR-TEAS 2020
Springer Nature

Functional Organic Materials

LET US C SOLUTIONS -15TH EDITION

Obj Oriented Prog With C++, 5e
Technical Textile Yarns

Proceedings of the International Conference in Alès, France, 1995

Fundamentals of Computer Programming with C#

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This book collects research works of data-driven medical diagnosis done via Artificial Intelligence based solutions, such as Machine Learning, Deep Learning and Intelligent Optimization. Physical devices powered with Artificial Intelligence are gaining importance in diagnosis and healthcare. Medical data from different sources can also be analyzed via Artificial Intelligence techniques for more effective results.

Description: Best way to

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learn any programming language is to create good programs in it. C is not exception to this rule. Once you decide to write any program you would find that there are always at least two ways to write it. So you need to find out whether you have chosen the best way to implement your program. That's where you would find this book useful. It contains solutions to all the exercises present in Let Us C 15th Edition. If you learn the language elements from Let Us C, write programs for the

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problems given in the exercises and then cross check your answers with the solutions given in this book you would be well on your way to become a skilled C programmer. I am sure you would appreciate this learning path like the millions of students and professionals have in the past decade.

Table Of Contents:

- Introduction
- Chapter 0 : Before We begin
- Chapter 1 : Getting Started
- Chapter 2 : C Instructions
- Chapter 3 : Decision Control Instruction
- Chapter 4 : More Complex Decision

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MakingChapter 5 : Loop
control InstructionChapter
6 : More Complex
RepetitionsChapter 7 :
Case Control
InstructionChapter 8 :
FunctionsChapter 9 :
PointersChapter 10 :
RecursionChapter 11 : Data
Types RevisitedChapter 12
: The C
PreprocessorChapter 13 :
ArraysChapter 14 :
Multidimensional
ArraysChapter 15 :
StringsChapter 16 :
Handling Multiple
StringsChapter 17 :
StructuresChapter 18 :
Console Input/

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OutputChapter 19 : File
Input/outputChapter 20 :
More Issues in
Input/OutputChapter 21 :
Operations on BitsChapter
22 : Miscellaneous
featuresChapter 23 : C
Under Linux

This timely overview of
the syntheses for
functional pi-systems
focuses on target
molecules that have shown
interesting properties as
materials or models in
physics, biology and
chemistry. The unique
concept allows readers to
select the right synthetic
strategy for success,

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making it invaluable for a number of industrial applications. A "must have" for everyone working in this new and rapidly expanding field.

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That package includes ISBN-10: 0133252817

/ISBN-13: 9780133252811 and ISBN-10: 013337968X

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/ISBN-13: 9780133379686 .
MyProgrammingLab should only be purchased when required by an instructor . For undergraduate students in Computer Science and Computer Programming courses or beginning programmers A solid foundation in the basics of C++ programming will allow readers to create efficient, elegant code ready for any production environment Learning basic logic and fundamental programming techniques is essential for new programmers to succeed. A distinctive

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fundamentals-first approach and clear, concise writing style characterize Introduction to Programming with C++, 3/e. Basic programming concepts are introduced on control statements, loops, functions, and arrays before object-oriented programming is discussed. Abstract concepts are carefully and concretely explained using simple, short, and stimulating examples. Explanations are presented in brief segments, with many figures and tables. NEW! This edition is available

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with MyProgrammingLab, an innovative online homework and assessment tool.

Through the power of practice and immediate personalized feedback, MyProgrammingLab helps students fully grasp the logic, semantics, and syntax of programming.

Master SQL Fundamentals

Computer Networks

A First Course in

Programming and Statistics

The Book of R

Programming in ANSI C

A Brain-Friendly Guide

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versions of Pearson's MyLab & Mastering products exist for each title, and registrations are not transferable. To register for and use Pearson's MyLab & Mastering products, you may also need a Course ID, which your instructor will provide. Used books, rentals, and purchases made outside of PearsonIf purchasing or renting from companies other than Pearson, the access codes for Pearson's MyLab & Mastering products may not be included, may be incorrect, or may be previously redeemed. Check with the seller before completing your purchase. Note: You are purchasing a standalone product; MyMathLab does not come packaged with this content. MyMathLab is not a self-

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paced technology and should only be purchased when required by an instructor. If you would like to purchase "both "the physical text and MyMathLab, search for: 9780134022697 / 0134022696 Linear Algebra and Its Applications plus New MyMathLab with Pearson eText -- Access Card Package, 5/e With traditional linear algebra texts, the course is relatively easy for students during the early stages as material is presented in a familiar, concrete setting. However, when abstract concepts are introduced, students often hit a wall. Instructors seem to agree that certain concepts (such as linear independence, spanning, subspace, vector space, and linear transformations) are not

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easily understood and require time to assimilate. These concepts are fundamental to the study of linear algebra, so students' understanding of them is vital to mastering the subject. This text makes these concepts more accessible by introducing them early in a familiar, concrete " R^n " setting, developing them gradually, and returning to them throughout the text so that when they are discussed in the abstract, students are readily able to understand.

Technical yarns are produced for the manufacture of technical textiles. As the range of technical textiles is rapidly increasing, an understanding of the range of yarns available and their properties is important, in order

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to be able to meet the requirements of the intended end-use. Part one of the book begins by reviewing the advances in yarn production. Topics examine the advances in textile yarn spinning, modification of textile yarn structures, yarn hairiness and its reduction and coatings for technical textile yarns. The second group of chapters describes the range of technical yarns, such as electro-conductive textile yarns, novel yarns and plasma treated yarns for biomedical applications. Technical sewing threads and biodegradable textile yarns are also discussed. Technical textile yarns provides essential reading for yarn and fabric manufacturers, textile scientists, technicians, engineers and

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technologists, covering a wide range of areas within textile applications. This book will also be an important information source for academics and students. Provides a comprehensive overview of the variety of technical textile yarns available along with individual characteristics and production methods Documents advances in textile yarn spinning and texturising featuring compact, rotor and friction spinning Assesses different types of technical yarns including plasma-treated yarns for biomedical applications and hybrid yarns for thermoplastic composites This book identifies modern topics and current trends of structural and soft matter aspects of conjugated

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polymers and oligomers. Each chapter recognizes an active research line where structural perspective dominates research and therefore the book covers fundamental aspects of persistent conjugated polymer backbone, water soluble conjugated polyelectrolytes and surfactants, conjugated molecules and biomolecules and DNA and the advanced use of synchrotron radiation and electron microscopy to find out structural details in conjugated molecule films and devices as well as under ambient and extreme conditions. Contents: Soft Materials Chain Persistence in Conjugated Polymers and Supramolecular Systems Thin Film

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Structure of Conjugated Molecules
Structure of Conjugated Polyelectrolytes
Intermolecular Interactions between Conjugated Polymers and DNA
Supramolecular Assemblies of Conjugated Polymers and DNA
In Situ Scattering of Conjugated Polymer Films Prepared by Roll-to-Roll Technique
Structures of Conjugated Polymers under High Pressure Conditions
Readership: The book is useful for physicists and chemists — particularly physical chemists and colloid chemists and materials chemists — and materials scientists and chemical engineers.
Keywords: Conjugated Polymers; Conjugated Oligomers; Conjugated Polyelectrolytes; Supramolecules; Surfactants; DNA

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;Antibodies;Synchrotron Radiation;X-Ray;Electron Microscopy;Electron Diffraction
Review: Key Features:

Differentiation in terms of topic and specialization
The book is up-to-date
Prominent expert authors

The use of spontaneous self-assembly, as a lithographic tool and as an external field-free means to construct well-ordered and intriguing patterns, has received much attention. This book offers a spectrum of experimental and theoretical advances in evaporative self-assembly techniques.

An Open Introduction

Computer Systems and Applications

Python Network Programming

Cookbook

The Art of Software Testing

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Biochemistry and Biotechnological
Advances

From Anaerobic Digestion to a
Sustainable Bioenergy Industry
Updated for the latest database
management systems --
including MySQL 6.0, Oracle
11g, and Microsoft's SQL Server
2008 -- this introductory guide
will get you up and running with
SQL quickly. Whether you need
to write database applications,
perform administrative tasks, or
generate reports, Learning SQL,
Second Edition, will help you
easily master all the SQL
fundamentals. Each chapter
presents a self-contained lesson
on a key SQL concept or

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technique, with numerous illustrations and annotated examples. Exercises at the end of each chapter let you practice the skills you learn. With this book, you will: Move quickly through SQL basics and learn several advanced features Use SQL data statements to generate, manipulate, and retrieve data Create database objects, such as tables, indexes, and constraints, using SQL schema statements Learn how data sets interact with queries, and understand the importance of subqueries Convert and manipulate data with SQL's built-in functions, and use conditional

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logic in data statements

Knowledge of SQL is a must for interacting with data. With Learning SQL, you'll quickly learn how to put the power and flexibility of this language to work.

Assuming no previous knowledge of C++ - although basic programming skills are helpful - this is an attempt to demystify object-orientation. It presents the concept in a simple form, using C++, and is intended particularly for students on HNC/D and degree computing courses. The book is written and designed for academic study, giving a 15-week course plan

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based on the book's structure. Taking a practical approach, this second edition contains a full-length case study as well as a wide range of exercises.

The free book "Fundamentals of Computer Programming with C#" is a comprehensive computer programming tutorial that teaches programming, logical thinking, data structures and algorithms, problem solving and high quality code with lots of examples in C#. It starts with the first steps in programming and software development like variables, data types, conditional statements, loops and arrays and continues with other basic

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problem solving. The book uses C# language and Visual Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team of developers lead by Svetlin Nakov who has 20+ years practical software development experience. It teaches the major programming concepts and way of thinking needed to become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a skillful software engineer. The books does not

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Title: Fundamentals of Computer

Programming with C# (The

Bulgarian C# Programming

Book) ISBN: 9789544007737

ISBN-13: 978-954-400-773-7

(9789544007737) ISBN-10:

954-400-773-3 (9544007733)

Author: Svetlin Nakov & Co.

Pages: 1132 Language: English

Published: Sofia, 2013 Publisher:

Faber Publishing, Bulgaria Web

site:

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book, computer programming,

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