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Problem Solving and Programming Concepts

With approximately 600 problems and 35 worked examples, this supplement provides a collection of practical problems on the design, analysis and verification of algorithms. The book focuses on the important areas of algorithm design and analysis: background material; algorithm design techniques; advanced data structures and NP-completeness; and miscellaneous problems. Algorithms are expressed in Pascal-like pseudocode supported by figures, diagrams, hints, solutions, and comments.

Problems on Algorithms

This book is designed to introduce doctoral and graduate students to the process of conducting scientific research in the social sciences, business, education, public health, and related disciplines. It is a one-stop, comprehensive, and compact source for foundational concepts in behavioral research, and can serve as a stand-alone text or as a supplement to research readings in any doctoral seminar or research methods class. This book is currently used as a research text at universities on six continents and will shortly be available in nine different languages.

Social Science Research

A Practical Approach to using Multivariate Analyses Using Multivariate Statistics, 6th edition provides advanced undergraduate as well as graduate students with a timely and comprehensive introduction to today's most commonly encountered statistical and multivariate techniques, while assuming only a limited knowledge of higher-level mathematics.

Using Multivariate Statistics

Now in the 5th edition, Cracking the Coding Interview gives you the interview preparation you need to get the top software developer jobs. This book provides: 150 Programming Interview Questions and Solutions: From binary trees to binary search, this list of 150 questions includes the most common and most useful questions in data structures, algorithms, and knowledge based questions. 5 Algorithm Approaches: Stop being blind-sided by tough algorithm questions, and learn these five approaches to tackle the trickiest problems. Behind the Scenes of the interview processes at Google, Amazon, Microsoft, Facebook, Yahoo, and Apple: Learn what really goes on during your interview day and how decisions get made. Ten Mistakes Candidates Make -- And How to Avoid Them: Don't lose your dream job by making these common mistakes. Learn what many candidates do wrong, and how to avoid these issues. Steps to Prepare for Behavioral and Technical Questions: Stop meandering through an endless set of questions, while missing some of the most important preparation techniques. Follow these steps to more thoroughly prepare in less time.

Cracking the Coding Interview

Design and build high-performance, secure, and scalable Salesforce solutions to meet business demands and

gain practical experience using real-world scenarios by creating engaging end-to-end solution presentations

Key Features Learn common integration, data migration, and security patterns for designing scalable and reliable solutions on the Salesforce Lightning platform Build an end-to-end delivery framework pipeline for delivering successful projects within specified timelines Gain access to an exclusive book club of skilled Salesforce professionals, to discuss ideas, best practices, and share experiences of designing modern solutions using Salesforce

Book Description Salesforce Certified Technical Architect (CTA) is the ultimate certification to validate your knowledge and skills when it comes to designing and building high-performance technical solutions on the Salesforce platform. The CTA certificate is granted after successfully passing the CTA review board exam, which tests your platform expertise and soft skills for communicating your solutions and vision. You'll start with the core concepts that every architect should master, including data lifecycle, integration, and security, and build your aptitude for creating high-level technical solutions. Using real-world examples, you'll explore essential topics such as selecting systems or components for your solutions, designing scalable and secure Salesforce architecture, and planning the development lifecycle and deployments. Finally, you'll work on two full mock scenarios that simulate the review board exam, helping you learn how to identify requirements, create a draft solution, and combine all the elements together to create an engaging story to present in front of the board or to a client in real life. By the end of this Salesforce book, you'll have gained the knowledge and skills required to pass the review board exam and implement architectural best practices and strategies in your day-to-day work.

What you will learn Explore data lifecycle management and apply it effectively in the Salesforce ecosystem Design appropriate enterprise integration interfaces to build your connected solution Understand the essential concepts of identity and access management Develop scalable Salesforce data and system architecture Design the project environment and release strategy for your solution Articulate the benefits, limitations, and design considerations relating to your solution Discover tips, tricks, and strategies to prepare for the Salesforce CTA review board exam

Who this book is for This book is for Salesforce architects who want to become certified technical architects by learning how to design secure and scalable technical solutions for their organizations. A solid understanding of the Salesforce platform is required, ideally combined with 3 to 5 years of practical experience as an application architect, system architect, enterprise architect, or solution architect.

Becoming a Salesforce Certified Technical Architect

An extensively revised edition of a mathematically rigorous yet accessible introduction to algorithms.

Computer Fundamentals

Improve your programming through a solid understanding of C pointers and memory management. With this practical book, you'll learn how pointers provide the mechanism to dynamically manipulate memory, enhance support for data structures, and enable access to hardware. Author Richard Reese shows you how to use pointers with arrays, strings, structures, and functions, using memory models throughout the book. Difficult to master, pointers provide C with much flexibility and power—yet few resources are dedicated to this data type. This comprehensive book has the information you need, whether you're a beginner or an experienced C or C++ programmer or developer. Get an introduction to pointers, including the declaration of different pointer types Learn about dynamic memory allocation, de-allocation, and alternative memory management techniques Use techniques for passing or returning data to and from functions Understand the fundamental aspects of arrays as they relate to pointers Explore the basics of strings and how pointers are used to support them Examine why pointers can be the source of security problems, such as buffer overflow Learn several pointer techniques, such as the use of opaque pointers, bounded pointers and, the restrict keyword

Introduction To Algorithms

Tackle the real-world complexities of modern machine learning with innovative, cutting-edge, techniques

About This Book Fully-coded working examples using a wide range of machine learning libraries and tools,

including Python, R, Julia, and Spark Comprehensive practical solutions taking you into the future of machine learning Go a step further and integrate your machine learning projects with Hadoop Who This Book Is For This book has been created for data scientists who want to see machine learning in action and explore its real-world application. With guidance on everything from the fundamentals of machine learning and predictive analytics to the latest innovations set to lead the big data revolution into the future, this is an unmissable resource for anyone dedicated to tackling current big data challenges. Knowledge of programming (Python and R) and mathematics is advisable if you want to get started immediately. What You Will Learn Implement a wide range of algorithms and techniques for tackling complex data Get to grips with some of the most powerful languages in data science, including R, Python, and Julia Harness the capabilities of Spark and Hadoop to manage and process data successfully Apply the appropriate machine learning technique to address real-world problems Get acquainted with Deep learning and find out how neural networks are being used at the cutting-edge of machine learning Explore the future of machine learning and dive deeper into polyglot persistence, semantic data, and more In Detail Finding meaning in increasingly larger and more complex datasets is a growing demand of the modern world. Machine learning and predictive analytics have become the most important approaches to uncover data gold mines. Machine learning uses complex algorithms to make improved predictions of outcomes based on historical patterns and the behaviour of data sets. Machine learning can deliver dynamic insights into trends, patterns, and relationships within data, immensely valuable to business growth and development. This book explores an extensive range of machine learning techniques uncovering hidden tricks and tips for several types of data using practical and real-world examples. While machine learning can be highly theoretical, this book offers a refreshing hands-on approach without losing sight of the underlying principles. Inside, a full exploration of the various algorithms gives you high-quality guidance so you can begin to see just how effective machine learning is at tackling contemporary challenges of big data. This is the only book you need to implement a whole suite of open source tools, frameworks, and languages in machine learning. We will cover the leading data science languages, Python and R, and the underrated but powerful Julia, as well as a range of other big data platforms including Spark, Hadoop, and Mahout. Practical Machine Learning is an essential resource for the modern data scientists who want to get to grips with its real-world application. With this book, you will not only learn the fundamentals of machine learning but dive deep into the complexities of real world data before moving on to using Hadoop and its wider ecosystem of tools to process and manage your structured and unstructured data. You will explore different machine learning techniques for both supervised and unsupervised learning; from decision trees to Naive Bayes classifiers and linear and clustering methods, you will learn strategies for a truly advanced approach to the statistical analysis of data. The book also explores the cutting-edge advancements in machine learning, with worked examples and guidance on deep learning and reinforcement learning, providing you with practical demonstrations and samples that help take the theory—and mystery—out of even the most advanced machine learning methodologies. Style and approach A practical data science tutorial designed to give you an insight into the practical application of machine learning, this book takes you through complex concepts and tasks in an accessible way. Featuring information on a wide range of data science techniques, Practical Machine Learning is a comprehensive data science resource.

Understanding and Using C Pointers

The first medical specialty selection guide written by residents for students! Provides an inside look at the issues surrounding medical specialty selection, blending first-hand knowledge with useful facts and statistics, such as salary information, employment data, and match statistics. Focuses on all the major specialties and features firsthand portrayals of each by current residents. Also includes a guide to personality characteristics that are predominate with practitioners of each specialty. “A terrific mixture of objective information as well as factual data make this book an easy, informative, and interesting read.” --Review from a 4th year Medical Student

Practical Machine Learning

This newly expanded and updated second edition of the best-selling classic continues to take the "mystery" out of designing algorithms, and analyzing their efficacy and efficiency. Expanding on the first edition, the book now serves as the primary textbook of choice for algorithm design courses while maintaining its status as the premier practical reference guide to algorithms for programmers, researchers, and students. The reader-friendly Algorithm Design Manual provides straightforward access to combinatorial algorithms technology, stressing design over analysis. The first part, Techniques, provides accessible instruction on methods for designing and analyzing computer algorithms. The second part, Resources, is intended for browsing and reference, and comprises the catalog of algorithmic resources, implementations and an extensive bibliography. NEW to the second edition: • Doubles the tutorial material and exercises over the first edition • Provides full online support for lecturers, and a completely updated and improved website component with lecture slides, audio and video • Contains a unique catalog identifying the 75 algorithmic problems that arise most often in practice, leading the reader down the right path to solve them • Includes several NEW "war stories" relating experiences from real-world applications • Provides up-to-date links leading to the very best algorithm implementations available in C, C++, and Java

The Ultimate Guide To Choosing a Medical Specialty

KEY CONTENTS OF THIS GUIDE INCLUDE: - Contains invaluable tips on how to prepare for abstract reasoning tests; - Written by an expert in this field in conjunction with recruitment experts; - Contains lots of sample test questions and answers.

The Algorithm Design Manual

The Institute of Medicine study Crossing the Quality Chasm (2001) recommended that an interdisciplinary summit be held to further reform of health professions education in order to enhance quality and patient safety. Health Professions Education: A Bridge to Quality is the follow up to that summit, held in June 2002, where 150 participants across disciplines and occupations developed ideas about how to integrate a core set of competencies into health professions education. These core competencies include patient-centered care, interdisciplinary teams, evidence-based practice, quality improvement, and informatics. This book recommends a mix of approaches to health education improvement, including those related to oversight processes, the training environment, research, public reporting, and leadership. Educators, administrators, and health professionals can use this book to help achieve an approach to education that better prepares clinicians to meet both the needs of patients and the requirements of a changing health care system.

Abstract Reasoning Tests

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Health Professions Education

Praise for the First Edition \" . . . outstandingly appealing with regard to its style, contents, considerations of requirements of practice, choice of examples, and exercises.\" —Zentrablatt Math \" . . . carefully structured with many detailed worked examples . . .\" —The Mathematical Gazette \" . . . an up-to-date and user-friendly account . . .\" —Mathematika

An Introduction to Numerical Methods and Analysis addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that emphasizes readability and usefulness for the numerical methods novice, the book begins with basic, elementary material and gradually builds up to more advanced topics. A selection of concepts required for the study of computational mathematics is introduced, and simple approximations using Taylor's Theorem are also treated in some depth. The text includes exercises that run the gamut from simple hand computations, to challenging derivations and minor proofs, to programming exercises. A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book. An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis.

Strengthening Forensic Science in the United States

Presents system and program design as a disciplined science.

An Introduction to Numerical Methods and Analysis

\"Comprising more than 500 entries, the Encyclopedia of Research Design explains how to make decisions about research design, undertake research projects in an ethical manner, interpret and draw valid inferences from data, and evaluate experiment design strategies and results. Two additional features carry this encyclopedia far above other works in the field: bibliographic entries devoted to significant articles in the history of research design and reviews of contemporary tools, such as software and statistical procedures, used to analyze results. It covers the spectrum of research design strategies, from material presented in introductory classes to topics necessary in graduate research; it addresses cross- and multidisciplinary research needs, with many examples drawn from the social and behavioral sciences, neurosciences, and biomedical and life sciences; it provides summaries of advantages and disadvantages of often-used strategies; and it uses hundreds of sample tables, figures, and equations based on real-life cases.\" --Publisher's description.

The Delphi Method

Technology enhanced learning (TEL) aims to design, develop and test sociotechnical innovations that will support and enhance learning practices of both individuals and organisations. It is therefore an application domain that generally covers technologies that support all forms of teaching and learning activities. Since information retrieval (in terms of searching for relevant learning resources to support teachers or learners) is a pivotal activity in TEL, the deployment of recommender systems has attracted increased interest. This brief attempts to provide an introduction to recommender systems for TEL settings, as well as to highlight their particularities compared to recommender systems for other application domains.

Structured Design

Business analysts must respond to the challenges of today's highly competitive global economy by developing practical, creative and financially sound solutions and this excellent guide gives them the necessary tools. It is also ideal for students wanting to gain university and industry qualifications. This new edition includes expanded discussions regarding gap analysis and benefits management, the impact of Agile

software development and an introduction to business architecture.

Encyclopedia of Research Design

Summary Generative Art presents both the technique and the beauty of algorithmic art. The book includes high-quality examples of generative art, along with the specific programmatic steps author and artist Matt Pearson followed to create each unique piece using the Processing programming language. About the Technology Artists have always explored new media, and computer-based artists are no exception. Generative art, a technique where the artist creates print or onscreen images by using computer algorithms, finds the artistic intersection of programming, computer graphics, and individual expression. The book includes a tutorial on Processing, an open source programming language and environment for people who want to create images, animations, and interactions. About the Book Generative Art presents both the techniques and the beauty of algorithmic art. In it, you'll find dozens of high-quality examples of generative art, along with the specific steps the author followed to create each unique piece using the Processing programming language. The book includes concise tutorials for each of the technical components required to create the book's images, and it offers countless suggestions for how you can combine and reuse the various techniques to create your own works. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside The principles of algorithmic art A Processing language tutorial Using organic, pseudo-random, emergent, and fractal processes =====\u200b===== Table of Contents Part 1 Creative Coding Generative Art: In Theory and Practice Processing: A Programming Language for ArtistsPart 2 Randomness and Noise The Wrong Way to Draw A Line The Wrong Way to Draw a Circle Adding Dimensions Part 3 Complexity Emergence Autonomy Fractals

Recommender Systems for Learning

How do our patients come to be the way they are? What forces shape their conscious and unconscious thoughts and feelings? How can we use this information to best help them? Constructing psychodynamic formulations is one of the best ways for mental health professionals to answer questions like these. It can help clinicians in all mental health settings understand their patients, set treatment goals, choose therapeutic strategies, construct meaningful interventions and conduct treatment. Despite the centrality of psychodynamic formulation to our work with patients, few students are taught how to construct them in a clear systematic way. This book offers students and practitioners from all fields of mental health a clear, practical, operationalized method for constructing psychodynamic formulations, with an emphasis on the following steps: DESCRIBING problems and patterns REVIEWING the developmental history LINKING problems and patterns to history using organizing ideas about development. The unique, up-to-date perspective of this book integrates psychodynamic theories with ideas about the role of genetics, trauma, and early cognitive and emotional difficulties on development to help clinicians develop effective formulations. Psychodynamic Formulation is written in the same clear, concise style of Psychodynamic Psychotherapy: A Clinical Manual (Wiley 2011). It is reader friendly, full of useful examples, eminently practical, suitable for either classroom or individual use, and applicable for all mental health professionals. It can stand alone or be used as a companion volume to the Clinical Manual.

Business Analysis

This survey aims to help countries review and develop policies to make the teaching profession more attractive and more effective.

Generative Art

The magazine that helps career moms balance their personal and professional lives.

Psychodynamic Formulation

This is a short, focused introduction to MATLAB, a comprehensive software system for mathematical and technical computing. It contains concise explanations of essential MATLAB commands, as well as easily understood instructions for using MATLAB's programming features, graphical capabilities, simulation models, and rich desktop interface. Written for MATLAB 7, it can also be used with earlier (and later) versions of MATLAB. This book teaches how to graph functions, solve equations, manipulate images, and much more. It contains explicit instructions for using MATLAB's companion software, Simulink, which allows graphical models to be built for dynamical systems. MATLAB's new \"publish\" feature is discussed, which allows mathematical computations to be combined with text and graphics, to produce polished, integrated, interactive documents. For the beginner it explains everything needed to start using MATLAB, while experienced users making the switch to MATLAB 7 from an earlier version will also find much useful information here.

Creating Effective Teaching and Learning Environments: First Results from TALIS

Applied Linear Statistical Models 5e is the long established leading authoritative text and reference on statistical modeling. For students in most any discipline where statistical analysis or interpretation is used, ALSM serves as the standard work. The text includes brief introductory and review material, and then proceeds through regression and modeling for the first half, and through ANOVA and Experimental Design in the second half. All topics are presented in a precise and clear style supported with solved examples, numbered formulae, graphic illustrations, and \"Notes\" to provide depth and statistical accuracy and precision. Applications used within the text and the hallmark problems, exercises, and projects are drawn from virtually all disciplines and fields providing motivation for students in virtually any college. The Fifth edition provides an increased use of computing and graphical analysis throughout, without sacrificing concepts or rigor. In general, the 5e uses larger data sets in examples and exercises, and where methods can be automated within software without loss of understanding, it is so done.

Working Mother

\"There is an apocryphal story of an eminent neurology professor who was asked to provide a differential diagnosis. He allegedly quipped: \"I can't give you a differential diagnosis. If you wish I will give you a list of wrong diagnoses followed by the right diagnosis.\" Sadly, this sort of arrogance pervaded our field, particularly in the era before there were accurate diagnostic methods and effective treatments of neurological diseases. Fortunately, this sort of pomposity is now relegated to the past and remains only as an antique reminder of a type of hubris that precluded discovery and progress in diseases of the nervous system\"--

Simplified ICSE Chemistry

Armstrong's Handbook of Human Resource Management is the classic text for all students and practitioners of HRM. Providing a complete resource for understanding and implementing HR in relation to the needs of the business as a whole, it includes in-depth coverage of all the key areas essential to the HR function. The 12th edition has been radically updated to create a cutting-edge textbook, which encourages and facilitates effective learning. Comprehensive online support material is provided for the instructor, student and now also the practitioner, providing a complete resource for teaching and self-learning. The text has been updated to include all the latest developments in HRM and now includes two new sections covering HR skills and toolkits.

A Guide to MATLAB

\"Educational Research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research offers a truly balanced, inclusive, and integrated overview of the processes involved in educational research. This text

first examines the general steps in the research process and then details the procedures for conducting specific types of quantitative, qualitative, and mixed methods studies. Direct guidance on reading research is offered throughout the text, and interactive features provide opportunities for practice.\"--Publisher's description.

Applied Linear Statistical Models

An introduction to CFD fundamentals and using commercial CFD software to solve engineering problems, designed for the wide variety of engineering students new to CFD, and for practicing engineers learning CFD for the first time. Combining an appropriate level of mathematical background, worked examples, computer screen shots, and step by step processes, this book walks the reader through modeling and computing, as well as interpreting CFD results. The first book in the field aimed at CFD users rather than developers. New to this edition: A more comprehensive coverage of CFD techniques including discretisation via finite element and spectral element as well as finite difference and finite volume methods and multigrid method. Coverage of different approaches to CFD grid generation in order to closely match how CFD meshing is being used in industry. Additional coverage of high-pressure fluid dynamics and meshless approach to provide a broader overview of the application areas where CFD can be used. 20% new content

How to Choose a Medical Specialty

As an area, Technology Enhanced Learning (TEL) aims to design, develop and test socio-technical innovations that will support and enhance learning practices of individuals and organizations. Information retrieval is a pivotal activity in TEL and the deployment of recommender systems has attracted increased interest during the past years. Recommendation methods, techniques and systems open an interesting new approach to facilitate and support learning and teaching. The goal is to develop, deploy and evaluate systems that provide learners and teachers with meaningful guidance in order to help identify suitable learning resources from a potentially overwhelming variety of choices. Contributions address the following topics: i) user and item data that can be used to support learning recommendation systems and scenarios, ii) innovative methods and techniques for recommendation purposes in educational settings and iii) examples of educational platforms and tools where recommendations are incorporated.

The Last Leaf

Historically, grief and spirituality have been jealously guarded as uniquely human experiences. Although non-human animal grief has been acknowledged in recent times, its potency has not been recognised as equal to human grief. Anthropocentric philosophical questions still underpin both academic and popular discussions. In *Enter the Animal*, Teya Brooks Pribac examines what we do and don't know about grief and spirituality. She explores the growing body of knowledge about attachment and loss and how they shape the lives of both human and non-human animals. A valuable addition to the vibrant interdisciplinary conversation about animal subjectivity, *Enter the Animal* identifies conceptual and methodological approaches that have contributed to the prejudice against nonhuman animals. It offers a compelling theoretical base for the consideration of grief and spirituality across species and highlights important ethical implications for how humans treat other animals.

Neurologic Differential Diagnosis

Data Structures Using C++ is designed to serve as a textbook for undergraduate engineering students of Computer Science and Information Technology as well as postgraduate students of Computer Applications. The book aims to provide a comprehensive coverage of the concepts of Data Structures using C++.

Armstrong's Handbook of Human Resource Management Practice

This report on the funding of school education constitutes the first in a series of thematic comparative reports bringing together findings from the OECD School Resources Review. School systems have limited financial resources with which to pursue their objectives and the design of school funding policies plays a key role in ensuring that resources are directed to where they can make the most difference. As OECD school systems have become more complex and characterised by multi-level governance, a growing set of actors are increasingly involved in financial decision-making. This requires designing funding allocation models that are aligned to a school system's governance structures, linking budget planning procedures at different levels to shared educational goals and evaluating the use of school funding to hold decision makers accountable and ensure that resources are used effectively and equitably. This report was co-funded by the European Commission. .

Educational Research

Explore a wide variety of popular interview questions and learn various techniques for breaking down tricky bits of code and algorithms into manageable chunks **Key Features** Discover over 200 coding interview problems and their solutions to help you secure a job as a Java developer **Work on overcoming coding challenges** faced in a wide array of topics such as time complexity, OOP, and recursion **Get to grips** with the nuances of writing good code with the help of step-by-step coding solutions **Book Description** Java is one of the most sought-after programming languages in the job market, but cracking the coding interview in this challenging economy might not be easy. This comprehensive guide will help you to tackle various challenges faced in a coding job interview and avoid common interview mistakes, and will ultimately guide you toward landing your job as a Java developer. This book contains two crucial elements of coding interviews - a brief section that will take you through non-technical interview questions, while the more comprehensive part covers over 200 coding interview problems along with their hands-on solutions. This book will help you to develop skills in data structures and algorithms, which technical interviewers look for in a candidate, by solving various problems based on these topics covering a wide range of concepts such as arrays, strings, maps, linked lists, sorting, and searching. You'll find out how to approach a coding interview problem in a structured way that produces faster results. Toward the final chapters, you'll learn to solve tricky questions about concurrency, functional programming, and system scalability. By the end of this book, you'll have learned how to solve Java coding problems commonly used in interviews, and will have developed the confidence to secure your Java-centric dream job. What you will learn **Solve** the most popular Java coding problems efficiently **Tackle** challenging algorithms that will help you develop robust and fast logic **Practice** answering commonly asked non-technical interview questions that can make the difference between a pass and a fail **Get** an overall picture of prospective employers' expectations from a Java developer **Solve** various concurrent programming, functional programming, and unit testing problems **Who this book is for** This book is for students, programmers, and employees who want to be invited to and pass interviews given by top companies. The book assumes high school mathematics and basic programming knowledge.

Computational Fluid Dynamics

Master C++ “The Qt Way” with Modern Design Patterns and Efficient Reuse This fully updated, classroom-tested book teaches C++ “The Qt Way,” emphasizing design patterns and efficient reuse. Readers will master both the C++ language and Qt libraries, as they learn to develop maintainable software with well-defined code layers and simple, reusable classes and functions. Every chapter of this edition has been improved with new content, better organization, or both. Readers will find extensively revised coverage of QObjects, Reflection, Widgets, Main Windows, Models and Views, Databases, Multi-Threaded Programming, and Reflection. This edition introduces the powerful new Qt Creator IDE; presents new multimedia APIs; and offers extended coverage of Qt Designer and C++ Integration. It has been restructured to help readers start writing software immediately and write robust, effective software sooner. The authors introduce several new design patterns, add many quiz questions and labs, and present more efficient solutions relying on new Qt features and best practices. They also provide an up-to-date C++ reference section and a complete application

case study. Master C++ keywords, literals, identifiers, declarations, types, and type conversions. Understand classes and objects, organize them, and describe their interrelationships. Learn consistent programming style and naming rules. Use lists, functions, and other essential techniques. Define inheritance relationships to share code and promote reuse. Learn how code libraries are designed, built, and reused. Work with QObject, the base class underlying much of Qt. Build graphical user interfaces with Qt widgets. Use templates to write generic functions and classes. Master advanced reflective programming techniques. Use the Model-View framework to cleanly separate data and GUI classes. Validate input using regular expressions and other techniques. Parse XML data with SAX, DOM, and QDomStreamReader. Master today's most valuable creational and structural design patterns. Create, use, monitor, and debug processes and threads. Access databases with Qt's SQL classes. Manage memory reliably and efficiently. Understand how to effectively manage QThreads and use QtConcurrent algorithms. [Click here to obtain supplementary materials for this book.](#)

Recommender Systems for Technology Enhanced Learning

Enter the Animal

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