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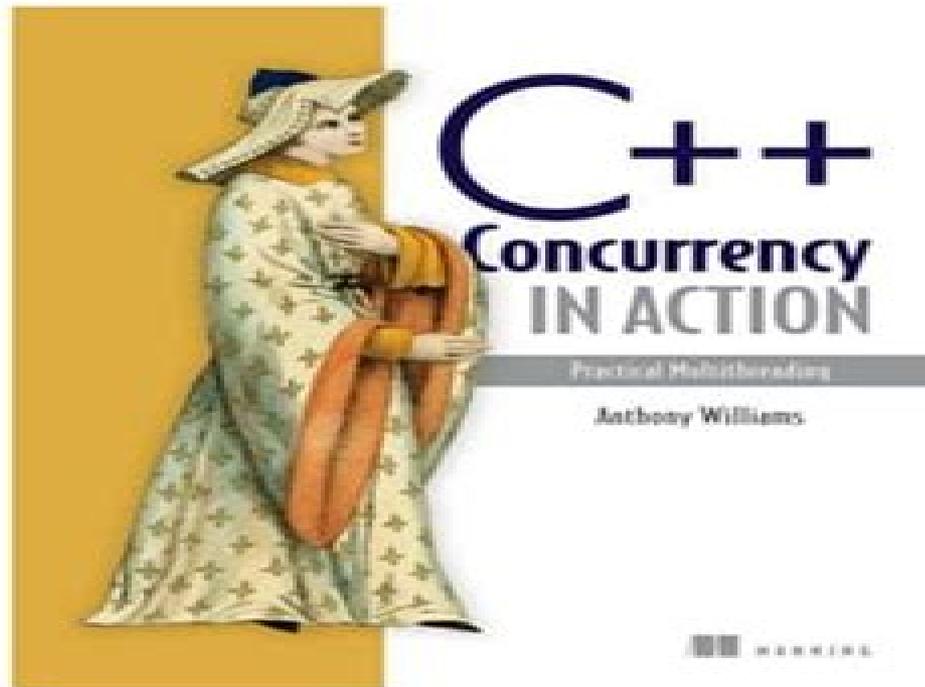
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Richard C. Lee,William M. Tepfenhart

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maximize the language s capabilities The new C 14 information is highlighted for quick reference Learn by example working with challenging real world program segments available to download study detailed case examples with extensive working code tested on Windows and Linux discover the tips tricks and workarounds that lead to good programming style including best practices for debugging Publisher s description   *A Tour of C++* Bjarne Stroustrup,2013-09-16 The C 11 standard allows programmers to express ideas more clearly simply and directly and to write faster more efficient code Bjarne Stroustrup the designer and original implementer of C thoroughly covers the details of this language and its use in his definitive reference The C Programming Language Fourth Edition In A Tour of C Stroustrup excerpts the overview chapters from that complete reference expanding and enhancing them to give an experienced programmer in just a few hours a clear idea of what constitutes modern C In this concise self contained guide Stroustrup covers most major language features and the major standard library components not of course in great depth but to a level that gives programmers a meaningful overview of the language some key examples and practical help in getting started Stroustrup presents the C features in the context of the programming styles they support such as object oriented and generic programming His tour is remarkably comprehensive Coverage begins with the basics then ranges widely through more advanced topics including many that are new in C 11 such as move semantics uniform initialization lambda expressions improved containers random numbers and concurrency The tour ends with a discussion of the design and evolution of C and the extensions added for C 11 This guide does not aim to teach you how to program see Stroustrup s Programming Principles and Practice Using C for that nor will it be the only resource you ll need for C mastery see Stroustrup s The C Programming Language Fourth Edition for that If however you are a C or C programmer wanting greater familiarity with the current C language or a programmer versed in another language wishing to gain an accurate picture of the nature and benefits of modern C you can t find a shorter or simpler introduction than this tour provides   **API Design for C++** Martin Reddy,2024-05-23 API Design for C Second Edition provides a comprehensive discussion of Application Programming Interface API development from initial design through implementation testing documentation release versioning maintenance and deprecation It is the only book that teaches the strategies of C API development including interface design versioning scripting and plug in extensibility Drawing from the author s experience on large scale collaborative software projects the text offers practical techniques of API design that produce robust code for the long term It presents patterns and practices that provide real value to individual developers as well as organizations The Second Edition includes all new material fully updated for the latest versions of C including a new chapter on concurrency and multithreading as well as a new chapter discussing how Objective C and C code can co exist and how a C API can be accessed from Swift programs In addition it explores often overlooked issues both technical and non technical contributing to successful design decisions that produce high quality robust and long lived APIs It focuses on various API styles and patterns that will allow you to produce elegant and durable libraries A discussion on testing strategies

concentrates on automated API testing techniques rather than attempting to include end user application testing techniques such as GUI testing system testing or manual testing Teaches the strategies of C API development including design versioning documentation testing scripting and extensibility Includes extensive code examples that illustrate each concept with fully functional examples and working source code for experimentation available online Covers various API styles and patterns with a focus on practical and efficient designs for large scale long term projects Includes updated URLs and ensures all code examples continue to work with modern compilers and supporting tools **Practical UNIX Programming** Kay A. Robbins,Steven Robbins,1996 Well written and comprehensive this book explains complicated topics such as signals and concurrency in a simple easy to understand manner The book offers an abundance of practical examples and exercises Covers the fundamentals asynchronous events concurrency and communications **The Art of C++** Herbert Schildt,2004 Learn how to apply C to a wide array of sophisticated applications In his clear prose C expert and the world s leading programming author Herb Schildt shares practical high powered applications of C revealing some of the most interesting features of the language in the process **ACM SIGPLAN Notices** ,2006 **Practical Object-oriented Development with UML and Java** Richard C. Lee,William M. Tepfenhart,2002 This practical book tells readers how to actually build object oriented models using UML notation and how to implement these models using Java The authors introduce all of the basic fundamentals necessary to start applying and understanding the object oriented paradigm without having to be an expert in computer science or advanced mathematics It can help the reader to make the right decisions to meet their individual business needs Using cases recommended approach scenarios and examples this clearly written book covers a multitude of topics managing complexity principles of Object Orientation specification models current techniques behaviors relationships rules design Java background and fundamentals multi tasking JAR files security Swing Applets class and interface internationalization and implementing generalization and specialization For professional software analysts and developers who work on large systems and others in the field of computer science *Proceedings of the ... ACM SIGPLAN Symposium on Principles & Practice of Parallel Programming* ,2007 **Simulation - Past, Present and Future** Richard Zobel,1998 **The Leading Edge** ,1996 **CIO.** ,1996-04 Microsoft .NET Distributed Applications Matthew MacDonald,2003 Make the jump to distributed application programming using the NET Framework and introduce a new level of performance scalability and security to your network and enterprise applications Expert NET developer Matthew MacDonald shares proven techniques for fully exploiting NET Remoting XML Web services and other NET technologies and integrating them into your real world solutions MacDonald digs into key NET building blocks and architectural issues explaining which features and designs will best serve your customized distributed application projects and when to use them Case studies with full code examples illustrate these practical techniques in action as well as demonstrating their benefits and tradeoffs Learn how to Cross application boundaries with NET Remoting XML Web services and Message Queuing Create responsive clients

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programs It not only shows how to write correct code but also discusses the dangers and pitfalls of concurrency such as data races deadlocks livelocks and more Description C is undergoing rapid changes to support concurrent and parallel programming The 2011 Standard introduced a new multicore memory model atomic variables threads asynchronous tasks and synchronization primitives Work is being done to add even more support in the future It s no longer enough to just learn some new syntax and library API There s a need to gain a deeper understanding of the theory and mechanics of concurrency and Bartosz leads you to that understanding in this video training About the Instructor Bartosz Milewski is the president of Reliable Software a company that creates high quality productivity tools for programmers His work has been widely published in major journals over the past several years and he is the author of C In Action Addison Wesley 2001 During his eight years at Microsoft he was the development lead of the Content Index component of Windows 2000 He has taught C programming at the University of Wroclaw in Poland and holds a Ph D in theoretical physics from the University of Wroclaw He is also involved with the University of Washington where he participates in graduate courses and seminars in computer science He is a member of the advisory board at UW Professional and Continuing Education advising on C C courses Skill Level Intermediate What You Will Learn Understanding the principles of concurrency and parallelism Understanding the principles of synchronization Writing multithreaded code Understanding common pitfalls of concurrent programming Who Should Take This Course Any C programmer with some programming experience who is interested in the exciting topic of concurrency Course Requirements Familiarity with the C language Content Description Lesson 1 Running an Interactive Demo shows you the difference that concurrency can make in the behavior of an interactive application You learn about latency and throughput and the difference between concurrency and parallelism Lesson 2 Starting and Joining Threads teaches you how to start a thread and what fork join parallelism is It also shows you how to pass arguments to threads and talks about thread construction and destruction

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