Manning C Concurrency In Action Second Edition

C++ Concurrency in ActionC++ Concurrency in ActionC++ Concurrency in Action, Second Edition, Video EditionJava Concurrency in PracticeInformation Systems: Modeling, Development, and IntegrationKnowledge in ActionLow Power Hardware Synthesis from Concurrent Action-Oriented SpecificationsAppointments of God in Judgment and in Mercy ConsideredProceedings, ASEIEEE/ACM International Conference on Automated Software EngineeringAtomic Actions in Concurrent SystemsProceedings of the Sixth IEEE Computer Society Workshop on Future Trends of Distributed Computing Systems, October 29-31, 1997, Tunis, TunisiaProceedings of the Twenty-second AAAI Conference on Artificial IntelligenceFormal Methods for ConcurrencyProceedingsTwelfth Conference on Innovative Applications of Artificial IntelligenceNew Communication ServicesProceedings of the SIGPLAN '83 Symposium on Programming Language Issues in Software SystemsWorks of Benjamin Wills Newton1986 Proceedings Anthony Williams Anthony Williams Anthony Williams Tim Peierls Jianhua Yang Raymond Reiter Gaurav Singh Benjamin Wills Newton Pankaj Jalote Clive Fencott American Association for Artificial Intelligence Paul J. Kuehn Benjamin Wills Newton IEEE Computer Society

this book should be on every c programmer s desk it s clear concise and valuable rob green bowling green state university this bestseller has been updated and revised to cover all the latest changes to c 14 and 17 c concurrency in action second edition teaches you everything you need to write robust and elegant multithreaded applications in c 17 purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology you choose c when your applications need to run fast well designed concurrency makes them go even faster c 17 delivers strong support for the multithreaded multiprocessor programming required for fast graphic processing machine learning and other performance sensitive tasks this exceptional book unpacks the features patterns and best practices of production grade c concurrency about the book c concurrency in action second edition is the definitive guide to writing elegant multithreaded applications in c updated for c 17 it carefully addresses every aspect of concurrent development from starting new threads to designing fully functional multithreaded algorithms and data structures concurrency master anthony williams presents examples and practical tasks in every chapter including insights that will delight even the most experienced developer what s inside full coverage of new c 17 features starting and managing threads synchronizing concurrent operations designing concurrent code debugging multithreaded applications about the reader written for intermediate c and c developers no prior experience with concurrency required about the author anthony williams has been an active member of the bsi c panel since 2001 and is the developer of the just thread pro extensions to the c 11 thread library table of contents hello world of concurrency in c managing threads sharing data between threads synchronizing concurrent operations the c memory model and operations on atomic types designing lock based concurrent data structures designing lock free concurrent data structures designing concurrent code advanced thread management parallel algorithms testing and debugging multithreaded applications

with the new c standard and technical report 2 tr2 multi threading is coming to c in a big way tr2 will provide higher level synchronization facilities that allow for a much greater level of abstraction and make programming multi threaded applications simpler and safer concurrent programming is required if programmers are to take advantage of the multi core microprocessors increasingly available from intel and others the new standard for c has extensions to the language that make concurrent programming more accessible to regular developers as a guide and reference to the new concurrency features in the upcoming c standard and tr2 this book is invaluable for existing programmers familiar with writing multi threaded code in c using platform specific apis or in other languages as well as c programmers who have never written multithreaded code before

this book should be on every c programmer s desk it s clear concise and valuable rob green bowling green state university this bestseller has been updated and revised to cover all the latest changes to c 14 and 17 c concurrency in action second edition teaches you everything you need to write robust and elegant multithreaded applications in c 17 you choose c when your applications need to run fast well designed concurrency makes them go even faster c 17 delivers strong support for the multithreaded multiprocessor programming required for fast graphic processing machine learning and other performance sensitive tasks this exceptional book course unpacks the features patterns and best practices of production grade c concurrency c concurrency in action second edition is the definitive guide to writing elegant multithreaded applications in c updated for c 17 it carefully addresses every aspect of concurrent development from starting new threads to designing fully functional multithreaded algorithms and data structures concurrency master anthony williams presents examples and practical tasks in every chapter including insights that will delight even the most experienced developer inside full coverage of new c 17 features starting and managing threads synchronizing concurrent operations designing concurrent code debugging multithreaded applications this book course is written for intermediate c and c developers no prior experience with concurrency required anthony williams has been an active member of the bsi c panel since 2001 and is the developer of the just thread pro extensions to the c 11 thread library a thorough presentation of c concurrency capabilities maurizio tomasi university of milan highly recommended for programmers who want to further their knowledge of the latest c standard frédéric flayol 4pro c the guide contains snippets for everyday use in your own projects and to help take your concurrency c skills from the padawan to the jedi level jura shikin ivi technologies narrated by lisa farina and diana gardiner

threads are a fundamental part of the java platform as multicore processors become the norm using concurrency effectively becomes essential for building high performance applications java se 5 and 6 are a huge step forward for the development of concurrent applications with improvements to the java virtual machine to support high performance highly scalable concurrent classes and a rich set of new concurrency building blocks in java concurrency in practice the creators of these new facilities explain not only how they work and how to use them but also the motivation and design patterns behind them however developing testing and debugging multithreaded programs can still be very difficult it is all too easy to create concurrent programs that appear to work but fail when it matters most in production under heavy load java concurrency in practice arms readers with both the theoretical underpinnings and concrete techniques for building reliable scalable maintainable concurrent applications rather than simply offering an inventory of concurrency apis and mechanisms it provides design rules patterns and mental models that make it easier to build concurrent programs that are both correct and performant this book covers basic concepts of concurrency and thread safety techniques for building and composing thread safe classes using the concurrency

building blocks in java util concurrent performance optimization dos and don ts testing concurrent programs advanced topics such as atomic variables nonblocking algorithms and the java memory model

uniscon 2009 united information systems conference was the third conf ence in the series that is based on the idea to pool smaller but highly interesting scienti c events on information systems into one large conference here people from di erent scienti c backgrounds can present their research results share their ideas and discuss future trends in these various areas uniscon 2009 was held in sydney australia in the university of western sydney campbelltown campus in 2009 the following scienti c events were held under the umbrella of uniscon 2009 th 8 international conference on information systems technology and its applications ista 2009 th 8 international workshop on conceptual modelling approaches for e business ecomo 2009 second workshop on model based software and data integration mbsdi 2009 we received 115 papers for the three events papers were submitted from over 25 countries after a rigorous review process 39 papers were accepted as full papers and 14 papers as short papers for presentation at the conference and published in these proceedings in addition to the above three events we also organized a doctoral cons tium to provide a forum for doctoral students to get feedback from experts in the area about their research projects

specifying and implementing dynamical systems with the situation calculus modeling and implementing dynamical systems is a central problem in artificial intelligence robotics software agents simulation decision and control theory and many other disciplines in recent years a new approach to representing such systems grounded in mathematical logic has been developed within the ai knowledge representation community this book presents a comprehensive treatment of these ideas basing its theoretical and implementation foundations on the situation calculus a dialect of first order logic within this framework it develops many features of dynamical systems modeling including time processes concurrency exogenous events reactivity sensing and knowledge probabilistic uncertainty and decision theory it also describes and implements a new family of high level programming languages suitable for writing control programs for dynamical systems finally it includes situation calculus specifications for a wide range of examples drawn from cognitive robotics planning simulation databases and decision theory together with all the implementation code for these examples this code is available on the book s site

human lives are getting increasingly entangled with technology especially comp ing and electronics at each step we take especially in a developing world we are dependent on various gadgets such as cell phones handheld pdas netbooks me cal prosthetic devices and medical

measurement devices e g blood pressure m itors glucometers two important design constraints for such consumer electronics are their form factor and battery life this translates to the requirements of reduction in the die area and reduced power consumption for the semiconductor chips that go inside these gadgets performance is also important as increasingly sophisticated applications run on these devices and many of them require fast response time the form factor of such electronics goods depends not only on the overall area of the chips inside them but also on the packaging which depends on thermal ch acteristics thermal characteristics in turn depend on peak power signature of the chips as a result while the overall energy usage reduction increases battery life peak power reduction in uences the form factor one more important aspect of these electronic equipments is that every 6 months or so a newer feature needs to be added to keep ahead of the market competition and hence new designs have to be completed with these new features better form factor battery life and performance every few months this extreme pressure on the time to market is another force that drives the innovations in design automation of semiconductor chips

this is a practical introduction to the complex subject of formal theories of concurrency supported throughout by examples and exercises the practical applicability of the methods is demonstrated and the benefits of rigorous approach made clear

aaai proceedings describe innovative concepts techniques perspectives and observations that present promising research directions in artificial intelligence the annual aaai national conference provides a forum for information exchange and interaction among researchers from all disciplines of ai contributions include theoretical experimental and empirical results topics cover principles of cognition perception and action the design application and evaluation of ai algorithms and systems architectures and frameworks for classes of ai systems and analyses of tasks and domains in which intelligent systems perform distributed for aaai press

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