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Quantum Computing

Classical Computing

Classical And Quantum Computing With C And Java Simulations

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Flajolet,Daniele Gardy,Abdelkader
Mokkadem**

Classical And Quantum Computing With C And Java Simulations:

Classical and Quantum Computing Yorick Hardy, Willi H. Steeb, 2012-12-06 Classical and Quantum computing provides a self contained systematic and comprehensive introduction to all the subjects and techniques important in scientific computing The style and presentation are readily accessible to undergraduates and graduates A large number of examples accompanied by complete C and Java code wherever possible cover every topic Features and benefits Comprehensive coverage of the theory with many examples Topics in classical computing include boolean algebra gates circuits latches error detection and correction neural networks Turing machines cryptography genetic algorithms For the first time genetic expression programming is presented in a textbook Topics in quantum computing include mathematical foundations quantum algorithms quantum information theory hardware used in quantum computing This book serves as a textbook for courses in scientific computing and is also very suitable for self study Students professionals and practitioners in computer science applied mathematics and physics will benefit from using the book and the included software simulations

Classical and Quantum Computing with C++ and Java Simulations Yorick Hardy, W.-H. Steeb, 2001-01-01 **Mathematical Tools In Signal Processing With C++ And Java Simulations** Willi-hans Steeb, 2005-09-08

In recent decades the study of signal processing has become increasingly complex with new techniques and applications constantly being developed for the processing transformation and interpretation of signals This book provides a comprehensive introduction to the traditional and modern methods used in signal processing It is designed to impart to the reader the mathematical techniques used in modelling signals and systems encompassing standard mathematical tools as well as newer techniques such as wavelets and neural networks C and Java implementations furnish these descriptions The book offers an excellent balance of theory and application beginning with a complete framework of discrete time signal processing

Problems & Solutions in Quantum Computing & Quantum Information W.-H. Steeb, Yorick Hardy, 2004 Quantum computing and quantum information are two of the fastest growing and most exciting research areas in physics The possibilities of using non local behaviour of quantum mechanics to factorize integers in random polynomial time have added to this new interest This invaluable book provides a collection of problems in quantum computing and quantum information together with detailed solutions It consists of two parts in the first part finite dimensional systems are considered while the second part deals with finite dimensional systems All the important concepts and topics are included such as quantum gates and quantum circuits entanglement teleportation Bell states Bell inequality Schmidt decomposition quantum Fourier transform magic gates von Neumann entropy quantum cryptography quantum error correction coherent states squeezed states POVM measurement beam splitter and Kerr Hamilton operator The topics range in difficulty from elementary to advanced Almost all of the problems are solved in detail and most of them are self contained All relevant definitions are given Students can learn from this book important principles and strategies required for problem solving Teachers will find it useful as a supplement since

important concepts and techniques are developed through the problems It can also be used as a text or a supplement for linear and multilinear algebra or matrix theory Problems and Solutions in Quantum Computing and Quantum Information Willi-Hans Steeb,Yorick Hardy,2006 CONTENIDO Finite dimensional Hilbert Spaces Qubits Kronecker product and tensor product Matrix properties Density operators Partial trace Unitary transforms and quantum gates Entropy Measurement Entanglement Bell inequality Teleportation Cloning Quantum algorithms Quantum error correction Quantum cryptography Infinite dimensional Hilbert Spaces Harmonic oscillator and Bose operators Coherent states Squeezed states Entanglement Swapping and cloning Hamilton operators *Problems & Solutions in Scientific Computing* W.-H. Steeb,2004 Scientific computing is a collection of tools techniques and theories required to develop and solve mathematical models in science and engineering on a computer This timely book provides the various skills and techniques needed in scientific computing The topics range in difficulty from elementary to advanced and all the latest fields in scientific computing are covered such as matrices numerical analysis neural networks genetic algorithms etc Presented in the format of problems and detailed solutions important concepts and techniques are introduced and developed Many problems include software simulations Algorithms have detailed implementations in C or Java This book will prove to be invaluable not only to students and research workers in the fields of scientific computing but also to teachers of this subject who will find this text useful as a supplement The topics discussed in this book are part of the e learning and distance learning courses conducted by the International School of Scientific Computing South Africa **Mathematics and Computer Science II** Brigitte Chauvin,Philippe Flajolet,Daniele Gardy,Abdelkader Mokkadem,2012-12-06 This is the second volume in a series of innovative proceedings entirely devoted to the connections between mathematics and computer science Here mathematics and computer science are directly confronted and joined to tackle intricate problems in computer science with deep and innovative mathematical approaches The book serves as an outstanding tool and a main information source for a large public in applied mathematics discrete mathematics and computer science including researchers teachers graduate students and engineers It provides an overview of the current questions in computer science and the related modern and powerful mathematical methods The range of applications is very wide and reaches beyond computer science The Nonlinear Workbook W.-H. Steeb,Yorick Hardy,Ruedi Stoop,2008 The study of nonlinear dynamical systems has advanced tremendously in the last 20 years making a big impact on science and technology This book provides all the techniques and methods used in nonlinear dynamics The concepts and underlying mathematics are discussed in detail The text has been designed for a one year course at both the junior and senior levels in nonlinear dynamics The topics discussed in the book are part of e learning and distance learning courses conducted by the International School for Scientific Computing University of Johannesburg BOOK JACKET

Nonlinear Workbook, The: Chaos, Fractals, Cellular Automata, Neural Networks, Genetic Algorithms, Gene Expression Programming, Support Vector Machine, Wavelets, Hidden Markov Models, Fuzzy Logic With C++,

Java And Symbolic++ Programs (3rd Edition) Willi-hans Steeb,2005-03-28 The study of nonlinear dynamical systems has advanced tremendously in the last 20 years making a big impact on science and technology This book provides all the techniques and methods used in nonlinear dynamics The concepts and underlying mathematics are discussed in detail The numerical and symbolic methods are implemented in C SymbolicC and Java Object oriented techniques are also applied The book contains more than 150 ready to run programs The text has also been designed for a one year course at both the junior and senior levels in nonlinear dynamics The topics discussed in the book are part of e learning and distance learning courses conducted by the International School for Scientific Computing

A Primer on Quantum Computing Franklin de Lima Marquezino,Renato Portugal,Carlile Lavor,2019-06-25 This book is about quantum computing and quantum algorithms The book starts with a chapter introducing the basic rules of quantum mechanics and how they can be used to build quantum circuits and perform computations Further Grover s algorithm is presented for unstructured search discussing its consequences and applications Next important techniques are discussed such as Quantum Fourier Transform and quantum phase estimation Finally Shor s algorithm for integer factorization is explained At last quantum walks are explained in detail covering both the discrete and continuous time models and applications of this techniques are described for the design and analyses of quantum algorithms

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