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this book provides readers with an up to date account of the use of machine learning frameworks methodologies algorithms and techniques in the context of computer aided design cad for very large scale integrated circuits vlsi coverage includes the various machine learning methods used in lithography physical design yield prediction post silicon performance analysis reliability and failure analysis power and thermal analysis analog design logic synthesis verification and neuromorphic design provides up to date information on machine learning in vlsi cad for device modeling layout verifications yield prediction post silicon validation and reliability discusses the use of machine learning techniques in the context of analog and digital synthesis demonstrates how to formulate vlsi cad objectives as machine learning problems and provides a comprehensive treatment of their efficient solutions discusses the tradeoff between the cost of collecting data and prediction accuracy and provides a methodology for using prior data to reduce cost of data collection in the design testing and validation of both analog and digital vlsi designs from the foreword as the semiconductor industry embraces the rising swell of cognitive systems and edge intelligence this book could serve as a harbinger and example of the osmosis that will exist between our cognitive structures and methods on the one hand and the hardware architectures and technologies that will support them on the other as we transition from the computing era to the cognitive one it behooves us to remember the success story of vlsi cad and to earnestly seek the help of the invisible hand so that our future cognitive systems are used to design more powerful cognitive systems this book is very much aligned with this on going transition from computing to cognition and it is with deep pleasure thati recommend it to all those who are actively engaged in this exciting transformation dr ruchir puri ibm fellow ibm watson cto chief architect ibm t j watson research center

this book provides an introduction to the monte carlo method suitable for a one or two semester course for graduate and advanced undergraduate students in the mathematical and engineering sciences it also can serve as a reference for the professional analyst in the past my inability to provide students with a single source book on this topic for class and for later professional reference had left me repeatedly frustrated and eventually motivated me to write this book in addition to focused accounts of major topics the book has two unifying themes one concerns the

effective use of information and the other concerns error control and reduction the book describes how to incorporate information about a problem into a sampling plan in a way that reduces the cost of estimating its solution to within a specified error bound although exploiting special structures to reduce cost long has been a hallmark of the monte carlo method the propen sity of users of the method to discard useful information because it does not fit traditional textbook models repeatedly has impressed me the present account aims at reducing the impediments to integrating this information errors both statistical and computational abound in every monte carlo sam pling experiment and a considerable methodology exists for controlling them

this two volume set ccis 751 and ccis 752 constitutes the proceedings of the 17th asia simulation conference asiasim 2017 held in malacca malaysia in august september 2017 the 124 revised full papers presented in this two volume set were carefully reviewed and selected from 267 submissions the papers contained in these proceedings address challenging issues in modeling and simulation in various fields such as embedded systems symbiotic simulation agent based simulation parallel and distributed simulation high performance computing biomedical engineering big data energy society and economics medical processes simulation language and software visualization virtual reality modeling and simulation for iot machine learning as well as the fundamentals and applications of computing

the area of personal and wireless communications is a burgeoning field technology advances and new frequency allocations for personal communication services pcs are creating numerous business and technical opportunities it is becoming clear that an essential requirement for exploiting opportunities is the ability to track the dramatic changes in wireless technology which is a principal aim of this book wireless personal communications research developments places particular emphasis on the areas of signal processing propagation and spread spectrum and emerging communication systems this book contains new results on adaptive antennas for capacity improvements in wireless communication systems as well as state of the art information on the latest technical developments also included are several chapters which discuss the impact of defense conversion on the wireless industry and related competitive issues the six parts of the book each focus on a distinct issue in wireless communications part i contains several tutorial chapters on key areas in wireless communications the first chapter is on radio wave propagation for

emerging wireless personal communication systems chapter two contains a comprehensive study of emerging dsp based interference rejection techniques for single channel antenna systems chapter three deals with spread spectrum wireless communications explaining the concept of spread spectrum modeling techniques for spread spectrum and current applications and research issues for spread spectrum systems part ii focuses on digital signal processing and spread spectrum two means of creating interference and multipath robust communications part iii concerns propagation aspects of wireless communications part iv discusses the performance of emerging wireless systems part v describes the opportunities and pitfalls of defense conversion from the perspective of several u s defense firmsthat have successfully made the transition to commercial wireless the final section discusses a number of competitive issues regarding personal communication services

tokyo japan 9 14 september 2007

this multi author volume containing contributions from international experts in the field presents recent developments in project scheduling for both theory and practice it is organized in three parts i basic deterministic models ii special deterministic models iii stochastic models a variety of approaches is presented dealing with multiple category resource constraints different mathematical models of activities and various project performance measures in single and multiobjective formulation exact and heuristic algorithms are presented for both deterministic and stochastic project description the volume will be of special interest to scientists students decision makers executive managers consultants and practitioners involved in systems management or operations research in particular in business engineering and finance but also in other areas of pure and applied sciences

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