Queueing Networks—
Exact Computational
Algorithms:

A Unified Theory Based on
Decomposition and Aggregation

Adrian E. Conway and
Nicolas D. Georganas

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Günter Haring,Christoph Lindemann,Martin Reiser

Queuing Networks Exact Computational Algorithms A Unified Theory Based On Decomposition And Aggregation: Queueing Networks--exact Computational Algorithms Adrian E. Conway,Nicolas D. Georganas,1989 This book provides the first unified and current view of the principal exact computational algorithms that have been developed to date for the analysis of product form queueing networks   **Probability and Statistics with Reliability, Queuing, and Computer Science Applications** Kishor S. Trivedi,2016-06-30 An accessible introduction to probability stochastic processes and statistics for computer science and engineering applications Second edition now also available in Paperback This updated and revised edition of the popular classic first edition relates fundamental concepts in probability and statistics to the computer sciences and engineering The author uses Markov chains and other statistical tools to illustrate processes in reliability of computer systems and networks fault tolerance and performance This edition features an entirely new section on stochastic Petri nets as well as new sections on system availability modeling wireless system modeling numerical solution techniques for Markov chains and software reliability modeling among other subjects Extensive revisions take new developments in solution techniques and applications into account and bring this work totally up to date It includes more than 200 worked examples and self study exercises for each section Probability and Statistics with Reliability Queuing and Computer Science Applications Second Edition offers a comprehensive introduction to probability stochastic processes and statistics for students of computer science electrical and computer engineering and applied mathematics Its wealth of practical examples and up to date information makes it an excellent resource for practitioners as well An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department   Computer Networks and Systems: Queueing Theory and Performance Evaluation Thomas G. Robertazzi,2012-12-06 Statistical performance evaluation has assumed an increasing amount of importance as we seek to design more and more sophisticated communi cation and information processing systems The ability to predict a pro posed system s performance without actually having to construct it is an extremely cost effective design tool This book is meant to be a first year graduate level introduction to the field of statistical performance evaluation As such it covers queueing theory chapters 1 4 and stochastic Petri networks chapter 5 There is a short appendix at the end of the book which reviews basic probability theory At Stony Brook this material would be covered in the second half of a two course sequence the first half is a computer networks course using a text such as Schwartz s Telecommunications Networks Students seem to be encouraged to pursue the analytical material of this book if they first have some idea of the potential applications I am grateful to B L Bodnar J Blake J S Emer M Garrett W Hagen Y C Jenq M Karol J F Kurose S Q Li A C Liu J McKenna H T Mouftah and W G Nichols I Y Wang the IEEE and Digital Equip ment Corporation for allowing previously published material to appear in this book   Modeling and Analysis of Telecommunications Networks Jeremiah F. Hayes,Thimma V. J. Ganesh Babu,2004-03-01 This book covers at an advanced level mathematical methods for analysis of telecommunication networks The book concentrates on various call

models used in telecommunications such as quality of service QoS in packet switched Internet Protocol IP networks Asynchronous Transfer Mode ATM and Time Division Multiplexing TDM Professionals researchers and graduate and advanced undergraduate students of telecommunications will benefit from this invaluable guidebook **Computer Performance Evaluation. Modelling Techniques and Tools** Boudewijn R. Haverkort,Henrik C. Bohnenkamp,Connie U. Smith,2003-06-29 This book constitutes the refereed proceedings of the 11th International Conference on Modelling Tools and Techniques for Computer Communication System Performance Evaluation TOOLS 2000 held in Schaumburg IL USA in March 2000 The 21 revised full papers presented were carefully reviewed and selected from a total of 49 submissions Also included are 15 tool descriptions and one invited paper The papers are organized in topical sections on queueing network models optimization in mobile networks stochastic Petri nets simulation formal methods and performance evaluation and measurement tools and applications **Formal Methods for Performance Evaluation** Marco Bernardo,Jane Hillston,2007-06-06 This book presents a set of 11 papers accompanying the lectures of leading researchers given at the 7th edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2007 held in Bertinoro Italy in May June 2007 SFM 2007 was devoted to formal techniques for performance evaluation and covered several aspects of the field Computational Probability Winfried K. Grassmann,2013-03-14 Great advances have been made in recent years in the field of computational probability In particular the state of the art as it relates to queuing systems stochastic Petri nets and systems dealing with reliability has benefited significantly from these advances The objective of this book is to make these topics accessible to researchers graduate students and practitioners Great care was taken to make the exposition as clear as possible Every line in the book has been evaluated and changes have been made whenever it was felt that the initial exposition was not clear enough for the intended readership The work of major research scholars in this field comprises the individual chapters of Computational Probability The first chapter describes in nonmathematical terms the challenges in computational probability Chapter 2 describes the methodologies available for obtaining the transition matrices for Markov chains with particular emphasis on stochastic Petri nets Chapter 3 discusses how to find transient probabilities and transient rewards for these Markov chains The next two chapters indicate how to find steady state probabilities for Markov chains with a finite number of states Both direct and iterative methods are described in Chapter 4 Details of these methods are given in Chapter 5 Chapters 6 and 7 deal with infinite state Markov chains which occur frequently in queueing because there are times one does not want to set a bound for all queues Chapter 8 deals with transforms in particular Laplace transforms The work of Ward Whitt and his collaborators who have recently developed a number of numerical methods for Laplace transform inversions is emphasized in this chapter Finally if one wants to optimize a system one way to do the optimization is through Markov decision making described in Chapter 9 Markov modeling has found applications in many areas three of which are described in detail Chapter 10 analyzes discrete time queues Chapter 11

describes networks of queues and Chapter 12 deals with reliability theory **Validation of Stochastic Systems** Christel Baier,Boudewijn R. Haverkort,Holger Hermanns,Joost-Pieter Katoen,Markus Siegle,2004-08-11 This tutorial volume presents a coherent and well balanced introduction to the validation of stochastic systems it is based on a GI Dagstuhl research seminar Supervised by the seminar organizers and volume editors established researchers in the area as well as graduate students put together a collection of articles competently covering all relevant issues in the area The lectures are organized in topical sections on modeling stochastic systems model checking of stochastic systems representing large state spaces deductive verification of stochastic systems *The Organization of Reduction, Data Flow, and Control Flow Systems* Werner Kluge,1992 In light of research over the last decade on new ways of representing and performing computations this book provides a timely reexamination of computer organization and computer architecture It systematically investigates the basic organizational concepts of reduction data flow and control flow or state transition and their relationship to the underlying programming paradigms For each of these concepts Kluge looks at how princip1es of language organization translate into architectures and how architectural features translate into concrete system implementations comparing them in order to identify their similarities and differences The focus is primarily on a functional programming paradigm based on a full fledged operational calculus and on its realization by various reduction systems Kluge first presents a brief outline of the overall configuration of a computing system and of an operating system kernel introduce elements of the theory of Petrinets as modeling tools for nonsequential systems and processes and use a simple form of higher order Petri nets to identify by means of examples the operational and control disciplines that govern the organization of reduction data flow and control flow computations He then introduces the notions of abstract algorithms and of reductions and includes an overview of the theory of the calculus The next five chapters describe the various computing engines that realize the reduction semantics of a full fledged calculus The remaining chapters provide self contained investigations of the G machine SKI combinator reduction and the data flow approach for implementing the functional programming paradigm This is followed by a detailed description of a typical control flow or von Neumann machine architecture a VAX11 system Properties of these machines are summarized in the concluding chapter which classifies them according to the semantic models they support Performance Evaluation: Origins and Directions Günter Haring,Christoph Lindemann,Martin Reiser,2003-06-29 This monograph like state of the art survey presents the history the key ideas the success stories and future challenges of performance evaluation and demonstrates the impact of performance evaluation on a variety of different areas through case studies in a coherent and comprehensive way Leading researchers in the field have contributed 19 cross reviewed topical chapters competently covering the whole range of performance evaluation from theoretical and methodological issues to applications in numerous other fields Additionally the book contains one contribution on the role of performance evaluation in industry and personal accounts of four pioneering researchers describing the genesis of breakthrough results The book will become a valuable

source of reference and indispensable reading for anybody active or interested in performance evaluation *Charge Dynamics in Organic Semiconductors* Pascal Kordt,2016-09-12 In the field of organic semiconductors researchers and manufacturers are faced with a wide range of potential molecules This work presents concepts for simulation based predictions of material characteristics starting from chemical stuctures The focus lies on charge transport be it in microscopic models of amorphous morphologies lattice models or large scale device models An extensive introductory review which also includes experimental techniques makes this work interesting for a broad readership Contents Organic Semiconductor Devices Experimental Techniques Charge Dynamics at Dierent Scales Computational Methods Energetics and Dispersive Transport Correlated Energetic Landscapes Microscopic Stochastic and Device Simulations Parametrization of Lattice Models Drift Diusion with Microscopic Link *Frontiers of Computing Systems Research* Stuart K. Tewksbury,2012-12-06 Intended for an interdisciplinary audience involved in computer systems research this second volume presents technical information on emerging topics in the field *Performance Engineering* Reiner Dumke,Claus Rautenstrauch,Andreas Schmietendorf,Andre Scholz,2003-06-29 Initially computer systems performance analyses were carried out primarily because of limited resources Due to ever increasing functional complexity of computational systems and user requirements performance engineering continues to play a major role in software development This book assesses the state of the art in performance engineering Besides revised chapters drawn from two workshops on performance engineering held in 2000 additional chapters were solicited in order to provide complete coverage of all relevant aspects The first part is devoted to the relation between software engineering and performance engineering the second part focuses on the use of models measures and tools finally case studies with regard to concrete technologies are presented Researchers professional software engineers and advanced students interested in performance analysis will find this book an indispensable source of information and reference Computer control of flexible manufacturing systems S. Joshi,J.S. Smith,2012-12-06 With the approach of the 21st century and the current trends in manufacturing the role of computer controlled flexible manufacturing an integral part in the success of manufacturing enterprises will take Manufacturing environments are changing to small batch with batch sizes diminishing to a quantity of one larger product variety produc tion on demand with low lead times with the ability to be agile This is in stark contrast to conventional manufacturing which has relied on economies of scale and where change is viewed as a disruption and is therefore detrimental to production Computer integrated manufac turing CIM and flexible manufacturing practices are a key component in the transition from conventional manufacturing to the new manu facturing environment While the use of computers in manufacturing from controlling indi vidual machines NC Robots AGVs etc to controlling flexible manu facturing systems FMS has advanced the flexibility of manufacturing environments it is still far from reaching its full potential in the environment of the future Great strides have been made in individual technologies and control of FMS has been the subject of considerable research but computerized shop floor control is not

nearly as flexible or integrated as hyped in industrial and academic literature In fact the integrated systems have lagged far behind what could be achieved with existing technology *Introduction to Queueing Networks* Erol Gelenbe,Guy Pujolle,1998-07-07 Introduction to Queueing Networks Second Edition Erol Gelenbe Duke University North Carolina USA and Guy Pujolle University of Versailles France With new concepts emerging in recent literature this is a timely update to a highly successful and well established first edition Queueing networks are particularly important as digital communications continue to grow this text provides a through and comprehensive introduction to the concept of applying mathematical queueing network theory to data communications New additions G nets i e generalized or Gelenbe queueing networks which allow the analysis of on line network control functions such as traffic re routing discrete time queueing networks with application to ATM networks As leading authorities in this area the authors focus on the practical approach where aspects of queueing theory are applied directly to communications systems and networks Included is a series of exercises and examples at the end of each chapter as well as a fully annotated bibliography This book is of particular interest to communications and computer engineers and is essential reading for network managers and administrators It will also benefit students and researchers in the area of networks as well as Web server administrators and personal computer users Visit Our Web Page http www wiley com Telecommunications Traffic : Technical and Business Considerations Sigit Haryadi, This book contains the technical and economic studies of telecommunications traffic which is required by a person who is or will be engaged in the telecommunications business This book is also useful for students and lecturers of the faculty in the fields of engineering business and economics especially those specializing in the field of Information Telecommunication *Journal of the Association for Computing Machinery* ,1995-07 **Performance and Reliability Analysis of Computer Systems** Robin A. Sahner,Kishor Trivedi,Antonio Puliafito,2012-12-06 Performance and Reliability Analysis of Computer Systems An Example Based Approach Using the SHARPE Software Package provides a variety of probabilistic discrete state models used to assess the reliability and performance of computer and communication systems The models included are combinatorial reliability models reliability block diagrams fault trees and reliability graphs directed acyclic task precedence graphs Markov and semi Markov models including Markov reward models product form queueing networks and generalized stochastic Petri nets A practical approach to system modeling is followed all of the examples described are solved and analyzed using the SHARPE tool In structuring the book the authors have been careful to provide the reader with a methodological approach to analytical modeling techniques These techniques are not seen as alternatives but rather as an integral part of a single process of assessment which by hierarchically combining results from different kinds of models makes it possible to use state space methods for those parts of a system that require them and non state space methods for the more well behaved parts of the system The SHARPE Symbolic Hierarchical Automated Reliability and Performance Evaluator package is the toolchest that allows the authors to specify stochastic models easily and solve them quickly adopting model hierarchies and very

efficient solution techniques All the models described in the book are specified and solved using the SHARPE language its syntax is described and the source code of almost all the examples discussed is provided Audience Suitable for use in advanced level courses covering reliability and performance of computer and communications systems and by researchers and practicing engineers whose work involves modeling of system performance and reliability *Stochastic Analysis of Computer and Communication Systems* Hideaki Takagi,1990 Analytical techniques for evaluating the performance of computer and communication systems have evolved hand in hand with the progress in these systems since the late 1960 s and an enormous amount of knowledge has been accumulated in this interplay of applied mathematics and computer science This book includes nineteen lengthy surveys of the state of the art of performance evaluation techniques and an extensive bibliography The topics include stochastic processes and queueing theory applied to performance analysis and performance models of computer systems and communication networks Articles have been contributed by leading scientists from five continents   Stochastic Modeling of Telecommunication Systems P. Nain,K. W. Ross,1992

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