

Gerard O'Regan  
Mathematical  
Approaches  
to Software  
Quality

 Springer

# Mathematical Approaches To Software Quality

**Clarke, Steve**



## **Mathematical Approaches To Software Quality:**

**Mathematical Approaches to Software Quality** Gerard O'Regan, 2006-02-16 This book provides a comprehensive introduction to various mathematical approaches to achieving high quality software An introduction to mathematics that is essential for sound software engineering is provided as well as a discussion of various mathematical methods that are used both in academia and industry The mathematical approaches considered include Z specification language Vienna Development Methods VDM Irish school of VDM VDM approach of Dijkstra and Hoare classical engineering approach of Parnas Cleanroom approach developed at IBM software reliability and unified modelling language UML Additionally technology transfer of the mathematical methods to industry is considered The book explains the main features of these approaches and applies mathematical methods to solve practical problems Written with both student and professional in mind this book assists the reader in applying mathematical methods to solve practical problems that are relevant to software engineers

**Mathematical Foundations of Software Engineering** Gerard O'Regan, 2023-05-04 This textbook presents an introduction to the mathematical foundations of software engineering It presents the rich applications of mathematics in areas such as error correcting codes cryptography the safety and security critical fields the banking and insurance fields as well as traditional engineering applications Topics and features Addresses core mathematics for critical thinking and problem solving Discusses propositional and predicate logic and various proof techniques to demonstrate the correctness of a logical argument Examines number theory and its applications to cryptography Considers the underlying mathematics of error correcting codes Discusses graph theory and its applications to modelling networks Reviews tools to support software engineering mathematics including automated and interactive theorem provers and model checking Discusses financial software engineering including simple and compound interest probability and statistics and operations research Discusses software reliability and dependability and explains formal methods used to derive a program from its specification Discusses calculus matrices vectors complex numbers and quaternions as well as applications to graphics and robotics Includes key learning topics summaries and review questions in each chapter together with a useful glossary This practical and easy to follow textbook reference is ideal for computer science students seeking to learn how mathematics can assist them in building high quality and reliable software on time and on budget The text also serves as an excellent self study primer for software engineers quality professionals and software managers

**Concise Guide to Software Engineering** Gerard O'Regan, 2022-09-24 This textbook presents a concise introduction to the fundamental principles of software engineering together with practical guidance on how to apply the theory in a real world industrial environment The wide ranging coverage encompasses all areas of software design management and quality Topics and features presents a broad overview of software engineering including software lifecycles and phases in software development and project management for software engineering examines the areas of requirements engineering software configuration management software

inspections software testing software quality assurance and process quality covers topics on software metrics and problem solving software reliability and dependability and software design and development including Agile approaches explains formal methods a set of mathematical techniques to specify and derive a program from its specification introducing the Z specification language discusses software process improvement describing the CMMI model and introduces UML a visual modelling language for software systems reviews a range of tools to support various activities in software engineering and offers advice on the selection and management of a software supplier describes such innovations in the field of software as distributed systems service oriented architecture software as a service cloud computing and embedded systems includes key learning topics summaries and review questions in each chapter together with a useful glossary This practical and easy to follow textbook reference is ideal for computer science students seeking to learn how to build high quality and reliable software on time and on budget The text also serves as a self study primer for software engineers quality professionals and software managers

**Introduction to Software Process Improvement** Gerard O'Regan, 2010-12-16 This textbook is a systematic guide to the steps in setting up a Capability Maturity Model Integration CMMI improvement initiative Readers will learn the project management practices necessary to deliver high quality software solutions to the customer on time and on budget The text also highlights how software process improvement can achieve specific business goals to provide a tangible return on investment Topics and features supplies review questions summaries and key topics for each chapter as well as a glossary of acronyms describes the CMMI model thoroughly detailing the five maturity levels provides a broad overview of software engineering reviews the activities and teams required to set up a CMMI improvement initiative examines in detail the implementation of CMMI in a typical organization at each of the maturity levels investigates the various tools that support organizations in improving their software engineering maturity discusses the SCAMPI appraisal methodology

*Introduction to Software Quality* Gerard O'Regan, 2014-05-22 This textbook describes the approaches used by software engineers to build quality into their software The fundamental principles of software quality management and software process improvement are discussed in detail with a particular focus on the CMMI framework Features includes review questions at the end of each chapter covers both theory and practice and provides guidance on applying the theory in an industrial environment examines all aspects of the software development process including project planning and tracking software lifecycles software inspections and testing configuration management and software quality assurance provides detailed coverage of software metrics and problem solving describes SCAMPI appraisals and how they form part of the continuous improvement cycle presents an introduction to formal methods and the Z specification language discusses UML which is used to describe the architecture of the system reviews the history of the field of software quality

**Concise Guide to Formal Methods** Gerard O'Regan, 2017-08-08 This invaluable textbook reference provides an easy to read guide to the fundamentals of formal methods highlighting the rich applications of formal methods across a diverse range of areas of



computing Topics and features introduces the key concepts in software engineering software reliability and dependability formal methods and discrete mathematics presents a short history of logic from Aristotle's syllogistic logic and the logic of the Stoics through Boole's symbolic logic to Frege's work on predicate logic covers propositional and predicate logic as well as more advanced topics such as fuzzy logic temporal logic intuitionistic logic undefined values and the applications of logic to AI examines the Z specification language the Vienna Development Method VDM and Irish School of VDM and the unified modelling language UML discusses Dijkstra's calculus of weakest preconditions Hoare's axiomatic semantics of programming languages and the classical approach of Parnas and his tabular expressions provides coverage of automata theory probability and statistics model checking and the nature of proof and theorem proving reviews a selection of tools available to support the formal methodist and considers the transfer of formal methods to industry includes review questions and highlights key topics in every chapter and supplies a helpful glossary at the end of the book This stimulating guide provides a broad and accessible overview of formal methods for students of computer science and mathematics curious as to how formal methods are applied to the field of computing

**Extreme Programming and Agile Processes in Software Engineering** Jutta Eckstein, Hubert Baumeister, 2004-06-01 Software development is being revolutionized The heavy weight processes of the 1980s and 1990s are being replaced by light weight so called agile processes Agile processes move the focus of software development back to what really matters running software This is only made possible by accepting that software development is a creative job done by with and for individual human beings For this reason agile software development encourages interaction communication and fun This was the focus of the Fifth International Conference on Extreme Programming and Agile Processes in Software Engineering which took place between June 6 and June 10 2004 at the conference center in Garmisch Partenkirchen at the foot of the Bavarian Alps near Munich Germany In this way the conference provided a unique forum for industry and academic professionals to discuss their needs and ideas for incorporating Extreme Programming and Agile Methodologies into their professional life under consideration of the human factor We celebrated this year's conference by reflecting on what we had achieved in the last half decade and we also focused on the challenges we will face in the near future

*A Brief History of Computing* Gerard O'Regan, 2008-02-01 Overview The objective of this book is to provide an introduction into some of the key topics in the history of computing The computing field is a vast area and a truly comprehensive account of its history would require several volumes The aims of this book are more modest and its goals are to give the reader a flavour of some of the key topics and events in the history of computing It is hoped that this will stimulate the interested reader to study the more advanced books and articles available The history of computing has its origins in the dawn of civilization Early hunter gatherer societies needed to be able to perform elementary calculations such as counting and arithmetic As societies evolved into towns and communities there was a need for more sophisticated calculations This included primitive accounting to determine the appropriate taxation to be levied as well as the development of geometry to

enable buildings templates and bridges to be constructed Our account commences with the contributions of the Egyptians and Babylonians It moves on to the foundational work done by Boole and Babbage in the nineteenth century and to the important work on Boolean Logic and circuit design done by Claude Shannon in the 1930s The theoretical work done by Turing on computability is considered as well as work done by von Neumann and others on the fundamental architecture for computers

**Software Design and Development: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2013-07-31 Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of software solutions Software Design and Development Concepts Methodologies Tools and Applications brings together the best practices of theory and implementation in the development of software systems This reference source is essential for researchers engineers practitioners and scholars seeking the latest knowledge on the techniques applications and methodologies for the design and development of software systems

**Concise Guide to Software Testing** Gerard O'Regan, 2019-09-30 This practically focused textbook provides a concise and accessible introduction to the field of software testing explaining the fundamental principles and offering guidance on applying the theory in an industrial environment Topics and features presents a brief history of software quality and its influential pioneers as well as a discussion of the various software lifecycles used in software development describes the fundamentals of testing in traditional software engineering and the role that static testing plays in building quality into a product explains the process of software test planning test analysis and design and test management discusses test outsourcing and test metrics and problem solving reviews the tools available to support software testing activities and the benefits of a software process improvement initiative examines testing in the Agile world and the verification of safety critical systems considers the legal and ethical aspects of software testing and the importance of software configuration management provides key learning topics and review questions in every chapter and supplies a helpful glossary at the end of the book This easy to follow guide is an essential resource for undergraduate students of computer science seeking to learn about software testing and how to build high quality and reliable software on time and on budget The work will also be of interest to industrialists including software engineers software testers quality professionals and software managers as well as the motivated general reader

**Guide to Discrete Mathematics** Gerard O'Regan, 2016-09-16 This stimulating textbook presents a broad and accessible guide to the fundamentals of discrete mathematics highlighting how the techniques may be applied to various exciting areas in computing The text is designed to motivate and inspire the reader encouraging further study in this important skill Features provides an introduction to the building blocks of discrete mathematics including sets relations and functions describes the basics of number theory the techniques of induction and recursion and the applications of mathematical sequences series permutations and combinations presents the essentials of algebra explains the fundamentals of automata theory matrices graph theory cryptography coding theory language theory and the concepts of

computability and decidability reviews the history of logic discussing propositional and predicate logic as well as advanced topics examines the field of software engineering describing formal methods investigates probability and statistics

SOFTWARE QUALITY AND TESTING KELKAR, S. A.,2012-07-23 This book is aimed at emphasising the fundamental concepts associated with Software Quality and Software Testing from a balanced perspective of theory and practice By presenting the information in an abstracted form this text guides the readers through all aspects of developing quality software across the entire development life cycle The book is written around the strategy of error avoidance error detection and correction and error tolerance as a last resort This text is well suited for teaching an academic course as a part of the Computer Science and or Information Technology and or MCA curriculum or for conducting an equivalent training programme for professionals KEY FEATURES Emphasises on management people issues in quality management Written in bullet point form Chapters follow the natural evolution of quality management      **Software Reliability Techniques for Real-World Applications** Roger K. Youree,2022-11-30 Authoritative resource providing step by step guidance for producing reliable software to be tailored for specific projects Software Reliability Techniques for Real World Applications is a practical up to date go to source that can be referenced repeatedly to efficiently prevent software defects find and correct defects if they occur and create a higher level of confidence in software products From content development to software support and maintenance the author creates a depiction of each phase in a project such as design and coding operation and maintenance management product production and concept development and describes the activities and products needed for each Software Reliability Techniques for Real World Applications introduces clear ways to understand each process of software reliability and explains how it can be managed effectively and reliably The book is supported by a plethora of detailed examples and systematic approaches covering analogies between hardware and software reliability to ensure a clear understanding Overall this book helps readers create a higher level of confidence in software products In Software Reliability Techniques for Real World Applications readers will find specific information on Defects including where defects enter the project system effects detection and causes of defects and how to handle defects Project phases including concept development and planning requirements and interfaces design and coding and integration verification and validation Roadmap and practical guidelines including at the start of a project as a member of an organization and how to handle troubled projects Techniques including an introduction to techniques in general plus techniques by organization systems engineering software and reliability engineering Software Reliability Techniques for Real World Applications is a practical text on software reliability providing over sixty five different techniques and step by step guidance for producing reliable software It is an essential and complete resource on the subject for software developers software maintainers and producers of software      *Ethical and Legal Aspects of Computing* Gerard O'Regan,2024-03-23 This textbook presents an overview of the critically important ethical and legal issues that arise in the computing field and provides a professional perspective from

software engineering The author gained exposure to these aspects of computing while working as a software engineer at Motorola in Ireland where he coordinated the patent programme and worked with several software suppliers Topics and features Presents a broad overview of ethics and the law Includes key learning topics summaries and review questions in each chapter together with a useful glossary Discusses the professional responsibility of computer professionals Explores ethics in various civilisations and religious traditions Discusses ethical software engineering and ethical outsourcing Considers what is fair and ethical in data science Describes ethical challenges that arise in social media and the AI field Reviews intellectual property including patents copyright and trademarks This practical and easy to follow textbook reference is ideal for computer science students seeking to understand legal and ethical aspects of computing The text also serves as a concise self study primer for software engineers and software managers

*Formal Methods and Software Engineering* Toshiaki Aoki,Kenji Taguchi,2012-10-29 This book constitutes the refereed proceedings of the 14th International Conference on Formal Engineering Methods ICFEM 2012 held in Kyoto Japan November 2012 The 31 revised full papers together with 3 invited talks presented were carefully reviewed and selected from 85 submissions The papers address all current issues in formal methods and their applications in software engineering They are organized in topical sections on concurrency applications of formal methods to new areas quantity and probability formal verification modeling and development methodology temporal logics abstraction and refinement tools as well as testing and runtime verification

*Software Engineering Education in the Modern Age* Paola Inverardi,Mehdi Jazayeri,2006-12-15 This tutorial book presents an augmented selection of the material presented at the Software Engineering Education and Training Track at the International Conference on Software Engineering ICSE 2005 held in St Louis MO USA in May 2005 The 12 tutorial lectures presented cover software engineering education state of the art and practice creativity and rigor challenges for industries and academia as well as future directions

**Intelligent Algorithms in Software Engineering** Radek Silhavy,2020-08-08 This book gathers the refereed proceedings of the Intelligent Algorithms in Software Engineering Section of the 9th Computer Science On line Conference 2020 CSOC 2020 held on line in April 2020 Software engineering research and its applications to intelligent algorithms have now assumed an essential role in computer science research In this book modern research methods together with applications of machine and statistical learning in software engineering research are presented

**Mathematics in Computing** Gerard O'Regan,2020-01-10 This illuminating textbook provides a concise review of the core concepts in mathematics essential to computer scientists Emphasis is placed on the practical computing applications enabled by seemingly abstract mathematical ideas presented within their historical context The text spans a broad selection of key topics ranging from the use of finite field theory to correct code and the role of number theory in cryptography to the value of graph theory when modelling networks and the importance of formal methods for safety critical systems This fully updated new edition has been expanded with a more comprehensive treatment of algorithms logic



automata theory model checking software reliability and dependability algebra sequences and series and mathematical induction Topics and features includes numerous pedagogical features such as chapter opening key topics chapter introductions and summaries review questions and a glossary describes the historical contributions of such prominent figures as Leibniz Babbage Boole and von Neumann introduces the fundamental mathematical concepts of sets relations and functions along with the basics of number theory algebra algorithms and matrices explores arithmetic and geometric sequences and series mathematical induction and recursion graph theory computability and decidability and automata theory reviews the core issues of coding theory language theory software engineering and software reliability as well as formal methods and model checking covers key topics on logic from ancient Greek contributions to modern applications in AI and discusses the nature of mathematical proof and theorem proving presents a short introduction to probability and statistics complex numbers and quaternions and calculus This engaging and easy to understand book will appeal to students of computer science wishing for an overview of the mathematics used in computing and to mathematicians curious about how their subject is applied in the field of computer science The book will also capture the interest of the motivated general reader

**End-User Computing: Concepts, Methodologies, Tools, and Applications** Clarke, Steve, 2008-02-28 Covers the important concepts methodologies technologies applications social issues and emerging trends in this field Provides researchers managers and other professionals with the knowledge and tools they need to properly understand the role of end user computing in the modern organization

**World of Computing** Gerard O'Regan, 2018-04-17 This engaging work provides a concise introduction to the exciting world of computing encompassing the theory technology history and societal impact of computer software and computing devices Spanning topics from global conflict to home gaming international business and human communication this text reviews the key concepts unpinning the technology which has shaped the modern world Topics and features introduces the foundations of computing the fundamentals of algorithms and the essential concepts from mathematics and logic used in computer science presents a concise history of computing discussing the historical figures who made important contributions and the machines which formed major milestones examines the fields of human computer interaction and software engineering provides accessible introductions to the core aspects of programming languages operating systems and databases describes the Internet revolution the invention of the smartphone and the rise of social media as well as the Internet of Things and cryptocurrencies explores legal and ethical aspects of computing including issues of hacking and cybercrime and the nature of online privacy free speech and censorship discusses such innovations as distributed systems service oriented architecture software as a service cloud computing and embedded systems includes key learning topics and review questions in every chapter and a helpful glossary Offering an enjoyable overview of the fascinating and broad ranging field of computing this easy to understand primer introduces the general reader to the ideas on which the digital world was built and the historical developments that helped to form the modern age

## Adopting the Track of Term: An Mental Symphony within **Mathematical Approaches To Software Quality**

In some sort of taken by displays and the ceaseless chatter of instantaneous connection, the melodic elegance and mental symphony created by the written word often fade into the background, eclipsed by the relentless noise and disturbances that permeate our lives. Nevertheless, situated within the pages of **Mathematical Approaches To Software Quality** a marvelous fictional value full of natural emotions, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that interesting masterpiece conducts viewers on a psychological trip, skillfully unraveling the hidden melodies and profound affect resonating within each carefully constructed phrase. Within the depths of the touching assessment, we will discover the book is central harmonies, analyze its enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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