

## Dte Axiom User Guide

The Comprehensive Guide to Computer Security, Extensively Revised with Newer Technologies, Methods, Ideas, and Examples In this updated guide, University of California at Davis Computer Security Laboratory co-director Matt Bishop offers clear, rigorous, and thorough coverage of modern computer security. Reflecting dramatic growth in the quantity, complexity, and consequences of security incidents, *Computer Security, Second Edition*, links core principles with technologies, methodologies, and ideas that have emerged since the first edition's publication. Writing for advanced undergraduates, graduate students, and IT professionals, Bishop covers foundational issues, policies, cryptography, systems design, assurance, and much more. He thoroughly addresses malware, vulnerability analysis, auditing, intrusion detection, and best-practice responses to attacks. In addition to new examples throughout, Bishop presents entirely new chapters on availability policy models and attack analysis. Understand computer security goals, problems, and challenges, and the deep links between theory and practice Learn how computer scientists seek to prove whether systems are secure Define security policies for confidentiality, integrity, availability, and more Analyze policies to reflect core questions of trust, and use them to constrain operations and change Implement cryptography as one component of a wider computer and network security strategy Use system-oriented techniques to establish effective security mechanisms, defining who can act and what they can do Set appropriate security goals for a system or product, and ascertain how well it meets them Recognize program flaws and malicious logic, and detect attackers seeking to exploit them This is both a comprehensive text, explaining the most fundamental and pervasive aspects of the field, and a detailed reference. It will help you align security concepts with realistic policies, successfully implement your policies, and thoughtfully manage the trade-offs that inevitably arise. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

A new, definitive translation of Heidegger's most important work.

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for CISSP exam success with the *CISSP Cert Guide* from Pearson IT Certification, a leader in IT Certification. Master CISSP exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks *CISSP Cert Guide* is a best-of-breed exam study guide. Leading IT certification experts Troy McMillan and Robin Abernathy share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. You'll get a

complete test preparation routine organized around proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. This study guide helps you master all the topics on the CISSP exam, including Access control Telecommunications and network security Information security governance and risk management Software development security Cryptography Security architecture and design Operation security Business continuity and disaster recovery planning Legal, regulations, investigations, and compliance Physical (environmental) security

What are the challenges and action points for agricultural sustainability in Sub-Saharan Africa? This open access collection of papers offers technical analyses, policy recommendations and an overview of success stories to date. Each carefully selected paper provides valuable insights for improved policy making and defines relevant strategic priorities on Africa's sustainable transformation process, which is in line with the international development agenda. Although agriculture remains the main source of income for Africa's population, the sector is rain-fed subjecting it to the vagaries of weather and climate change. This volume demonstrates the rationale of developing a competitive, inclusive and sustainable agribusiness sector for Africa's food security and structural transformation. From the impact of Bioenergy crop adoption and Drought Index Insurance to Agro-Industrialization, this volume is important reading for individual researchers, academic associations and professional bodies interested in African agricultural development.

Written by the author of the best-selling *HyperText & HyperMedia*, this book is an excellent guide to the methods of usability engineering. The book provides the tools needed to avoid usability surprises and improve product quality. Step-by-step information on which method to use at various stages during the development lifecycle are included, along with detailed information on how to run a usability test and the unique issues relating to international usability. \* Emphasizes cost-effective methods that developers can implement immediately \* Instructs readers about which methods to use when, throughout the development lifecycle, which ultimately helps in cost-benefit analysis. \* Shows readers how to avoid the four most frequently listed reasons for delay in software projects. \* Includes detailed information on how to run a usability test. \* Covers unique issues of international usability. \* Features an extensive bibliography allowing readers to find additional information. \* Written by an internationally renowned expert in the field and the author of the best-selling *HyperText & HyperMedia*.

*Network Management: Principles And Practice* is a reference book that comprehensively covers various theoretical and practical concepts of network management. It is divided into four units. The first unit gives an overview of network

management. The

Plato's frontal attack on poetry has always been a problem for sympathetic students, who have often minimized or avoided it. Beginning with the premise that the attack must be taken seriously, Mr. Havelock shows that Plato's hostility is explained by the continued domination of the poetic tradition in contemporary Greek thought. The reason for the dominance of this tradition was technological. In a nonliterate culture, stored experience necessary to cultural stability had to be preserved as poetry in order to be memorized. Plato attacks poets, particularly Homer, as the sole source of Greek moral and technical instruction--Mr. Havelock shows how the Illiad acted as an oral encyclopedia. Under the label of mimesis, Plato condemns the poetic process of emotional identification and the necessity of presenting content as a series of specific images in a continued narrative. The second part of the book discusses the Platonic Forms as an aspect of an increasingly rational culture. Literate Greece demanded, instead of poetic discourse, a vocabulary and a sentence structure both abstract and explicit in which experience could be described normatively and analytically: in short a language of ethics and science.

Behavioral Specifications of Businesses and Systems deals with the reading, writing and understanding of specifications. The papers presented in this book describe useful and sometimes elegant concepts, good practices (in programming and in specifications), and solid underlying theory that is of interest and importance to those who deal with increased complexity of business and systems. Most concepts have been successfully used in actual industrial projects, while others are from the forefront of research. Authors include practitioners, business thinkers, academics and applied mathematicians. These seemingly different papers address different aspects of a single problem - taming complexity.

Behavioral Specifications of Businesses and Systems emphasizes simplicity and elegance in specifications without concentrating on particular methodologies, languages or tools. It shows how to handle complexity, and, specifically, how to succeed in understanding and specifying businesses and systems based upon precise and abstract concepts. It promotes reuse of such concepts, and of constructs based on them, without taking reuse for granted. Behavioral Specifications of Businesses and Systems is the second volume of papers based on a series of workshops held alongside ACM's annual conference on Object-Oriented Programming Systems Languages and Applications (OOPSLA) and European Conference on Object-Oriented Programming (ECOOP). The first volume, Object-Oriented Behavioral Specifications, edited by Haim Kilov and William Harvey, was published by Kluwer Academic Publishers in 1996.

The Process Improvement Handbook: A Blueprint for Managing Change and Increasing Organizational Performance McGraw Hill Professional

The Millionaire Directory identify and give the contact addresses to thousands of millionaires from entertainment, business, health care, law,

finance, and other fields of endeavor.

Previously named A Dictionary of Computing, this bestselling dictionary has been renamed A Dictionary of Computer Science, and fully revised by a team of computer specialists, making it the most up-to-date and authoritative guide to computing available. Containing over 6,500 entries and with expanded coverage of multimedia, computer applications, networking, and personal computer science, it is a comprehensive reference work encompassing all aspects of the subject and is as valuable for home and office users as it is indispensable for students of computer science. Terms are defined in a jargon-free and concise manner with helpful examples where relevant. The dictionary contains approximately 150 new entries including cloud computing, cross-site scripting, iPad, semantic attack, smartphone, and virtual learning environment. Recommended web links for many entries, accessible via the Dictionary of Computer Science companion website, provide valuable further information and the appendices include useful resources such as generic domain names, file extensions, and the Greek alphabet. This dictionary is suitable for anyone who uses computers, and is ideal for students of computer science and the related fields of IT, maths, physics, media communications, electronic engineering, and natural sciences.

Queueing analysis is a vital tool used in the evaluation of system performance. Applications of queueing analysis cover a wide spectrum from bank automated teller machines to transportation and communications data networks. Fully revised, this second edition of a popular book contains the significant addition of a new chapter on Flow & Congestion Control and a section on Network Calculus among other new sections that have been added to remaining chapters. An introductory text, Queueing Modelling Fundamentals focuses on queueing modelling techniques and applications of data networks, examining the underlying principles of isolated queueing systems. This book introduces the complex queueing theory in simple language/proofs to enable the reader to quickly pick up an overview to queueing theory without utilizing the diverse necessary mathematical tools. It incorporates a rich set of worked examples on its applications to communication networks. Features include: Fully revised and updated edition with significant new chapter on Flow and Congestion Control as-well-as a new section on Network Calculus A comprehensive text which highlights both the theoretical models and their applications through a rich set of worked examples, examples of applications to data networks and performance curves Provides an insight into the underlying queuing principles and features step-by-step derivation of queueing results Written by experienced Professors in the field Queueing Modelling Fundamentals is an introductory text for undergraduate or entry-level post-graduate students who are taking courses on network performance analysis as well as those practicing network administrators who want to understand the essentials of network operations. The detailed step-by-step derivation of queueing results also makes it an excellent text for professional engineers.

This book, based on Pólya's method of problem solving, aids students in their transition to higher-level mathematics. It begins by providing a great deal of guidance on how to approach definitions, examples, and theorems in mathematics and ends by providing projects for independent study. Students will follow Pólya's four step process: learn to understand the problem; devise a plan to solve the problem; carry out that plan; and look back and check what the results told them.

Get ready to pass the CISSP exam and earn your certification with this advanced test guide Used alone or as an in-depth supplement to the bestselling The CISSP Prep Guide, this book provides you with an even more intensive preparation for the CISSP exam. With the help of more than 300 advanced questions and detailed answers, you'll gain a better understanding of the key concepts associated with the ten domains of the common body of knowledge (CBK). Each question is designed to test you on the information you'll need to know in order to pass the exam. Along with explanations of the answers to these advanced questions, you'll find discussions on some common incorrect

responses as well. In addition to serving as an excellent tutorial, this book presents you with the latest developments in information security. It includes new information on: Carnivore, Echelon, and the U.S. Patriot Act The Digital Millennium Copyright Act (DMCA) and recent rulings The European Union Electronic Signature Directive The Advanced Encryption Standard, biometrics, and the Software Capability Maturity Model Genetic algorithms and wireless security models New threats and countermeasures The CD-ROM includes all the questions and answers from the book with the Boson-powered test engine.

A great impetus to study differential inclusions came from the development of Control Theory, i.e. of dynamical systems  $x'(t) = f(t, x(t), u(t))$ ,  $x(0) = x_0$  "controlled" by parameters  $u(t)$  (the "controls"). Indeed, if we introduce the set-valued map  $F(t, x) = \{f(t, x, u) \mid u \in U\}$  then solutions to the differential equations (\*) are solutions to the "differential inclusion" (\*\*)  $x'(t) \in F(t, x(t))$ ,  $x(0) = x_0$  in which the controls do not appear explicitly. Systems Theory provides dynamical systems of the form  $\frac{d}{dt} x'(t) = A(x(t)) + B(x(t))u(t) + C(x(t))$ ;  $x(0) = x_0$  in which the velocity of the state of the system depends not only upon the  $x(t)$  of the system at time  $t$ , but also on variations of observations state  $B(x(t))$  of the state. This is a particular case of an implicit differential equation  $f(t, x(t), x'(t)) = 0$  which can be regarded as a differential inclusion (\*\*), where the right-hand side  $F$  is defined by  $F(t, x) = \{v \mid f(t, x, v) = 0\}$ . During the 60's and 70's, a special class of differential inclusions was thoroughly investigated: those of the form  $X'(t) \in -A(x(t))$ ,  $x(0) = x_0$  where  $A$  is a "maximal monotone" map. This class of inclusions contains the class of "gradient inclusions" which generalize the usual gradient equations  $x'(t) = -\nabla V(x(t))$ ,  $x(0) = x_0$  when  $V$  is a differentiable "potential".

### 2 Introduction

There are many instances when potential functions are not differentiable.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Artificial Intelligence: Structures and Strategies for Complex Problem Solving is ideal for a one- or two-semester undergraduate course on AI. In this accessible, comprehensive text, George Luger captures the essence of artificial intelligence—solving the complex problems that arise wherever computer technology is applied. Ideal for an undergraduate course in AI, the Sixth Edition presents the fundamental concepts of the discipline first then goes into detail with the practical information necessary to implement the algorithms and strategies discussed. Readers learn how to use a number of different software tools and techniques to address the many challenges faced by today's computer scientists.

Transcriptions of first-person accounts of slavery by former slaves, collected in the 1930s as part of the Federal Writers' Project of the Works Progress Administration (WPA).

I consider philosophy rather than arts and write not concerning manual but natural powers, and consider chiefly those things which relate to gravity, levity, elastic force, the resistance of fluids, and the like forces, whether attractive or impulsive; and therefore I offer this work as the mathematical principles of philosophy. In the third book I give an example of this in the explication of the System of the World. I derive from celestial phenomena the forces of gravity with which bodies tend to the sun and other planets.

Advanced Aerospace Materials is intended for engineers and students of aerospace, materials, and mechanical engineering. It covers the transition from aluminum to composite materials for aerospace structures and will include essential and advanced analyses used in today's aerospace industries. Various aspects of design, failure and monitoring

of structural components will be derived and presented accompanied by relevant formulas and analyses. In this authoritative book, widely respected practitioner and teacher Matt Bishop presents a clear and useful introduction to the art and science of information security. Bishop's insights and realistic examples will help any practitioner or student understand the crucial links between security theory and the day-to-day security challenges of IT environments. Bishop explains the fundamentals of security: the different types of widely used policies, the mechanisms that implement these policies, the principles underlying both policies and mechanisms, and how attackers can subvert these tools--as well as how to defend against attackers. A practicum demonstrates how to apply these ideas and mechanisms to a realistic company. Coverage includes Confidentiality, integrity, and availability Operational issues, cost-benefit and risk analyses, legal and human factors Planning and implementing effective access control Defining security, confidentiality, and integrity policies Using cryptography and public-key systems, and recognizing their limits Understanding and using authentication: from passwords to biometrics Security design principles: least-privilege, fail-safe defaults, open design, economy of mechanism, and more Controlling information flow through systems and networks Assuring security throughout the system lifecycle Malicious logic: Trojan horses, viruses, boot sector and executable infectors, rabbits, bacteria, logic bombs--and defenses against them Vulnerability analysis, penetration studies, auditing, and intrusion detection and prevention Applying security principles to networks, systems, users, and programs Introduction to Computer Security is adapted from Bishop's comprehensive and widely praised book, *Computer Security: Art and Science*. This shorter version of the original work omits much mathematical formalism, making it more accessible for professionals and students who have a less formal mathematical background, or for readers with a more practical than theoretical interest.

The word "elements" in the title of this book does not convey the implication that its contents are "elementary" in the sense of "easy": it mainly means that no prerequisites are required, with the exception of some basic background in classical physics and calculus. It also signifies "devoted to the foundations". In fact, the arguments chosen are all very classical, and the formal or technical developments of this century are absent, as well as a detailed treatment of such problems as the theory of the planetary motions and other very concrete mechanical problems. This second meaning, however, is the result of the necessity of finishing this work in a reasonable amount of time rather than an a priori choice. Therefore a detailed review of the "few" results of ergodic theory, of the "many" results of statistical mechanics, of the classical theory of fields (elasticity and waves), and of quantum mechanics are also totally absent; they could constitute the subject of two additional volumes on mechanics. This book grew out of several courses on *meccanica razionale*, i.e., essentially, theoretical mechanics, which I gave at the University of Rome during the years 1975-1978.

. This book is designed for introductory one-semester or one-year courses in communications networks in upper-level undergraduate programs. The second half of the book can be used in more advanced courses. As pre-requisites the book assumes a general knowledge of computer systems and programming, and elementary calculus. The second edition expands on the success of the first edition by updating on technological changes in networks and responding to comprehensive market feedback..

This fully updated edition of *Infectious Disease Surveillance* is for frontline public health practitioners, epidemiologists, and clinical microbiologists who are engaged in communicable disease control. It is also a foundational text for trainees in public health, applied epidemiology, postgraduate medicine and nursing programs. The second edition portrays both the conceptual framework and practical aspects of infectious disease surveillance. It is a comprehensive resource designed to improve the tracking of infectious diseases and to serve as a starting point in the development of new surveillance systems. *Infectious Disease Surveillance* includes over 45 chapters from over 100 contributors, and topics organized into six sections based on major themes. Section One highlights the critical role surveillance plays in public health and it provides an overview of the current International Health Regulations (2005) in addition to successes and challenges in infectious disease eradication. Section Two describes surveillance systems based on logical program areas such as foodborne illnesses, vector-borne diseases, sexually transmitted diseases, viral hepatitis healthcare and transplantation associated infections. Attention is devoted to programs for monitoring unexplained deaths, agents of bioterrorism, mass gatherings, and disease associated with international travel. Sections Three and Four explore the uses of the Internet and wireless technologies to advance infectious disease surveillance in various settings with emphasis on best practices based on deployed systems. They also address molecular laboratory methods, and statistical and geospatial analysis, and evaluation of systems for early epidemic detection. Sections Five and Six discuss legal and ethical considerations, communication strategies and applied epidemiology-training programs. The rest of the chapters offer public-private partnerships, as well lessons from the 2009-2010 H1N1 influenza pandemic and future directions for infectious disease surveillance.

Five more authentic TOEFL iBT® tests in ebook format -- from ETS, the makers of the test! This book contains five actual retired TOEFL® test forms with authentic reading, listening, speaking, and writing questions. Each form includes an Answer Key, sample responses for speaking and writing questions, and complete audio scripts. The TOEFL® test is the most respected English-language proficiency exam accepted by colleges, universities, and agencies around the world. Also included are downloadable interactive, computer-delivered versions of all five tests, plus separate audio tracks for all test listening sections. Includes: Over 300 real TOEFL® questions from the test makers Real TOEFL® essay-writing

prompts Sample responses for Speaking and Writing questions Downloadable computerized, interactive versions of all five tests About the Authors At Educational Testing Service (ETS; Princeton, NJ) we advance quality and equity in education for people worldwide by creating assessments based on rigorous research. ETS serves individuals, educational institutions, and government agencies by providing customized solutions for teacher certification, English language learning, and elementary, secondary, and postsecondary education, and by conducting education research, analysis, and policy studies. Founded as a non-profit in 1947, ETS develops, administers, and scores more than 50 million tests annually—including the TOEFL® and TOEIC® tests, the GRE® tests, and the Praxis® assessments—in more than 180 countries, at over 9,000 locations worldwide.

The manufacturing industry will reap significant benefits from encouraging the development of digital manufacturing science and technology. Digital Manufacturing Science uses theorems, illustrations and tables to introduce the definition, theory architecture, main content, and key technologies of digital manufacturing science. Readers will be able to develop an in-depth understanding of the emergence and the development, the theoretical background, and the techniques and methods of digital manufacturing science. Furthermore, they will also be able to use the basic theories and key technologies described in Digital Manufacturing Science to solve practical engineering problems in modern manufacturing processes. Digital Manufacturing Science is aimed at advanced undergraduate and postgraduate students, academic researchers and researchers in the manufacturing industry. It allows readers to integrate the theories and technologies described with their own research works, and to propose new ideas and new methods to improve the theory and application of digital manufacturing science.

This book introduces the general theory of relativity and includes applications to cosmology. The book provides a thorough introduction to tensor calculus and curved manifolds. After the necessary mathematical tools are introduced, the authors offer a thorough presentation of the theory of relativity. Also included are some advanced topics not previously covered by textbooks, including Kaluza-Klein theory, Israel's formalism and branes. Anisotropic cosmological models are also included. The book contains a large number of new exercises and examples, each with separate headings. The reader will benefit from an updated introduction to general relativity including the most recent developments in cosmology.

This is the third Volume in a series of books devoted to the interdisciplinary area between mathematics and physics, all emanating from the Advanced Study Institutes held in Istanbul in 1970, 1972 and 1977. We believe that physics and mathematics can develop best in harmony and in close communication and cooperation with each other and are sometimes inseparable. With this goal in mind we tried to bring mathematicians and physicists together to talk and



lecture to each other-this time in the area of nonlinear equations. The recent progress and surge of interest in nonlinear ordinary and partial differential equations has been impressive. At the same time, novel and interesting physical applications multiply. There is a unifying element brought about by the same characteristic nonlinear behavior occurring in very widely different physical situations, as in the case of "solitons," for example. This Volume gives, we believe, a very good indication over all of this recent progress both in theory and applications, and over current research activity and problems. The 1977 Advanced Study Institute was sponsored by the NATO Scientific Affairs Division, The University of the Bosphorus and the Turkish Scientific and Technical Research Council. We are deeply grateful to these Institutions for their support, and to lecturers and participants for their hard work and enthusiasm which created an atmosphere of lively scientific discussions.

The Definitive Guide to Process Improvement & Operational Excellence. This complete body of knowledge for process improvement professionals provides an easy-to-understand foundation for process maturity capability in any company. Gold Medal Winner of the 2015 Axiom Book Award for best business theory book! The Process Improvement Handbook: A Blueprint for Managing Change and Increasing Organizational Performance introduces an all-encompassing body of knowledge for anyone looking to improve their operating environment. It presents a practical way to build and improve processes, and can assist professionals whether they are learning the basics of Process Improvement, planning their first improvement project, or evangelizing process oriented thinking throughout their organization. All of the concepts explained in this book encapsulate everything needed to enable process excellence from start to finish, saving time, conserving resources, and accomplishing more in a competitive timeframe. These practical insights will make you more effective in any Process Improvement role: from contributor, stakeholder, executive, team member, department, business division, supplier, and customer. Highlights include: A comprehensive framework that outlines the methods, tools, and competencies used to create sustainable Process Improvement efforts An industry-leading architecture approach for building organizational processes - Process-Oriented Architecture (POA) Demonstrating the importance of end-to-end process improvement, and the pitfalls of individual and isolated improvement methods Capitalizing on practical agility principles to deliver faster results Sample learning materials such as instructions for getting started, practical guides, real-world case studies, and templates available in the book and on an affiliated website A self-sufficient reference guide that all employees can easily use or self-train with A common vocabulary within the Process Improvement profession for discussing, writing, and applying Process Improvement concepts A robust tool for educating or training organizations and professionals Includes a Foreword from Dr. H. James Harrington, prolific author of over 35 Process Improvement books and winner of numerous quality awards including ASQ's Distinguished Service Medal.

Combining select chapters from Grigsby's standard-setting *The Electric Power Engineering Handbook* with several chapters not found in the original work, *Electric Power Substations Engineering* became widely popular for its comprehensive, tutorial-style treatment of the theory, design, analysis, operation, and protection of power substations.

For its

*CISSP Study Guide, Third Edition* provides readers with information on the CISSP certification, the most prestigious, globally-recognized, vendor-neutral exam for information security professionals. With over 100,000 professionals certified worldwide, and many more joining their ranks, this new third edition presents everything a reader needs to know on the newest version of the exam's Common Body of Knowledge. The eight domains are covered completely and as concisely as possible, allowing users to ace the exam. Each domain has its own chapter that includes a specially-designed pedagogy to help users pass the exam, including clearly-stated exam objectives, unique terms and definitions, exam warnings, "learning by example" modules, hands-on exercises, and chapter ending questions. Provides the most complete and effective study guide to prepare users for passing the CISSP exam, giving them exactly what they need to pass the test. Authored by Eric Conrad who has prepared hundreds of professionals for passing the CISSP exam through SANS, a popular and well-known organization for information security professionals. Covers all of the new information in the Common Body of Knowledge updated in January 2015, and also provides two exams, tiered end-of-chapter questions for a gradual learning curve, and a complete self-test appendix.

Pomen in vloga obveščevalnega procesa v boju proti organiziranemu kriminalu sta še vedno predmet razlikih, pogosto tudi dvoumnih razlag, čeprav se v bistvu ne razlikuje od temeljne raziskave: opredeliti problem, zbrati podatke, jih oceniti, organizirati in analizirati ter razposlati ustreznim osebam. Analitična skupina v obveščevalni enoti poskrbi za interpretacijo podatkov, bodisi v smislu neposrednega policijskega posredovanja (npr. taktični pristop k podatkom) ali pa dolgoročne strategije reorganizacije (strateški pristop). Taktični in strateški vidiki obveščevalnega procesa se medsebojno prepletajo, dopolnjujejo in so soodvisni. Veštopenjski proces obveščanja ni samo fizična, temveč še v večji meri intelektualna dejavnost. S tem pridobiva nove razsežnosti, ki so nadaljnja spodbuda za proaktivno delo v preiskovalnem procesu.

The object-oriented methodology OOram is new and different from all others on the market, and has been in use and development in Norway for over 12 years. This book is the authoritative account of the OOram methodology for software analysis, design, development, maintenance, and reuse.

Wealth inequality has been not only rising at unsustainable pace but also dissociated from income inequality because of the fact that wealth is increasing without concomitant increase in savings and productive capital. Compelling evidence

indicates that capital gains and other economic rents are mainly responsible for wealth inequality and its divergence from income inequality. The main argument of the book is that interest-based debt contracts are one of the drivers of wealth inequality through creating disproportional economic rents for the asset-rich. The book also introduces the idea of risk-sharing asset-based redistribution, which is a novel and viable policy proposal, as an effective redistribution tool to address the wealth inequality problem. Furthermore, a large-scale stock-flow consistent macroeconomic model, which is step by step constructed in the book, sheds light on the formation of wealth inequality in a debt-based economy and on the prospective benefits of implementing risk-sharing asset-based redistribution policy tools compared to traditional redistribution policy options. The research presented in this book is novel in many respects and first of its kind in the Islamic economics and finance literature.

The purpose of this book is to offer insightful and thought-provoking commentary on global science education. It offers a critical analysis from the perspectives of culture, economics, epistemology, equity, gender, language, and religion in an effort to promote a reflective science education.

To learn and understand mathematics, students must engage in the process of doing mathematics. Emphasizing active learning, *Abstract Algebra: An Inquiry-Based Approach* not only teaches abstract algebra but also provides a deeper understanding of what mathematics is, how it is done, and how mathematicians think. The book can be used in both rings-first and groups-first abstract algebra courses. Numerous activities, examples, and exercises illustrate the definitions, theorems, and concepts. Through this engaging learning process, students discover new ideas and develop the necessary communication skills and rigor to understand and apply concepts from abstract algebra. In addition to the activities and exercises, each chapter includes a short discussion of the connections among topics in ring theory and group theory. These discussions help students see the relationships between the two main types of algebraic objects studied throughout the text. Encouraging students to do mathematics and be more than passive learners, this text shows students that the way mathematics is developed is often different than how it is presented; that definitions, theorems, and proofs do not simply appear fully formed in the minds of mathematicians; that mathematical ideas are highly interconnected; and that even in a field like abstract algebra, there is a considerable amount of intuition to be found. *An Introduction to Modern Cosmology Third Edition* is an accessible account of modern cosmological ideas. The Big Bang Cosmology is explored, looking at its observational successes in explaining the expansion of the Universe, the existence and properties of the cosmic microwave background, and the origin of light elements in the universe. Properties of the very early Universe are also covered, including the motivation for a rapid period of expansion known as cosmological inflation. The third edition brings this established undergraduate textbook up-to-date with the rapidly

evolving observational situation. This fully revised edition of a bestseller takes an approach which is grounded in physics with a logical flow of chapters leading the reader from basic ideas of the expansion described by the Friedman equations to some of the more advanced ideas about the early universe. It also incorporates up-to-date results from the Planck mission, which imaged the anisotropies of the Cosmic Microwave Background radiation over the whole sky. The Advanced Topic sections present subjects with more detailed mathematical approaches to give greater depth to discussions. Student problems with hints for solving them and numerical answers are embedded in the chapters to facilitate the reader's understanding and learning. Cosmology is now part of the core in many degree programs. This current, clear and concise introductory text is relevant to a wide range of astronomy programs worldwide and is essential reading for undergraduates and Masters students, as well as anyone starting research in cosmology. The accompanying website for this text, <http://booksupport.wiley.com>, provides additional material designed to enhance your learning, as well as errata within the text.

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