

## Unscaled

PROGRAMMING CONTROLLOGIX PROGRAMMABLE AUTOMATION CONTROLLERS covers ControlLogix Programmable Logic Controllers (PLCs) and their programming and integration. The book's strength is its breadth and depth of coverage, taking the reader from an overview of the PLC through ladder logic, structured text, sequential function chart, and function block programming. PROGRAMMABLE LOGIC CONTROLLERS WITH CONTROLLOGIX also covers industrial sensors, PLC modules and wiring, as well as motion control using ControlLogix through two-axis coordinated motion (linear and circular) is also covered. To aid in learning, the book features a DVD with Camtasia learning videos and explanations of setup of RSLinx, project development, tag creation, configuration, instructions and much more. Appendixes cover configuring remote I/O, producer/consumer communication, messaging, and motion configuration and programming. Students learn more and more easily because of the breadth of practical coverage, numerous examples and extensive exercises. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Pangolins have long been sustainably harvested by local communities for their meat and scales, but today the burgeoning trade in these mammals has reached crisis point. Eight pangolin species occur worldwide, four in Asia and four in Africa, and all face extinction if current rates of hunting and trading continue unabated. Now the spotlight is on the world's most trafficked mammal. Scientists have identified pangolins as the likely source of the coronavirus infection that has brought the world to its knees. This multi-trillion dollar disaster makes pangolins the most expensive meals ever eaten. In this timely exposé, Richard Peirce unpacks the horrors and dangers of the trade in this enigmatic, little-known mammal. He explains the links between wildlife and Covid-19, and details China's response to the pandemic. He also tells the story of a particular pangolin poached in Zimbabwe and brought to South Africa to be traded. Readers accompany an agent of the African Pangolin Working Group, assisted by the local police, on an actual sting operation to rescue the animal and capture the traffickers. And they follow the subsequent progress of the rescued pangolin, from near death to rehabilitation and release into the wild. Sales points: Topical subject – probes the claim that pangolins are central to the Covid-19 pandemic. Compelling story about the fate of pangolins in southeast Asia and Africa. Riveting account of a real-life sting operation to rescue a poached pangolin.

Mastering ARM hardware architecture opens a world of programming for nearly all phones and tablets including the iPhone/iPad and most Android phones. It's also the heart of many single board computers like the Raspberry Pi. Gain the skills required to dive into the fundamentals of the ARM hardware architecture with this book and start your own projects while you develop a working knowledge of assembly language for the ARM 64-bit processor. You'll review assembly language programming for the ARM Processor in 64-bit mode and write programs for a number of single board computers, including the Nvidia Jetson Nano and the Raspberry Pi (running 64-bit Linux). The book also discusses how to target assembly language programs for Apple iPhones and iPads along with 64-Bit ARM based Android phones and tablets. It covers all the tools you require, the basics of the ARM hardware architecture, all the groups of ARM 64-Bit Assembly instructions, and how data is stored in the computer's memory. In addition, interface apps to hardware such as the Raspberry Pi's GPIO ports. The book covers code optimization, as well as how to inter-operate with C and Python code. Readers will develop enough background to use the official ARM reference documentation for their own projects. With Programming with 64-Bit ARM Assembly Language as your guide you'll study how to read, reverse engineer and hack machine code, then be able to apply these new skills to study code examples and take control of both your ARM devices' hardware and software. What You'll Learn Make operating system calls from assembly language and include other software libraries in your projects Interface apps to hardware devices such as the Raspberry Pi GPIO ports Reverse engineer and hack code Use the official ARM reference documentation for your own projects Who This Book Is For Software developers who have already learned to program in a higher-level language like Python, Java, C#, or even C and now wish to learn Assembly programming.

1. Introduction 2. Syntax 3. Operational semantics 4. Denotational semantics 5. Fixed points 6. FL: a functional language 7. Naming 8. State 9. Control 10. Data 11. Simple types 12. Polymorphism and higher-order types 13. Type reconstruction 14. Abstract types 15. Modules 16. Effects describe program behavior 17. Compilation 18. Garbage collection.

A series of measurements were taken of the shock-boundary layer interaction (SBLI) in a Mach 2.1 continuously operated wind tunnel. The SBLI was generated by a small (~1.1mm tall) 20° wedge located on the top wall, and data were taken both in the region near the compression wedge and in the area where this shock impinged on the bottom wall. PIV was the primary measurement tool in both locations, though pressure data were also acquired near the compression wedge. Data were acquired at 4 spanwise locations to study the three-dimensionality of the flow. Both interactions were found to be highly 3-D, with a stronger interaction observed near the channel centerline. Evidence of a corner vortical structure in the compression corner was observed, and substantiated by CFD. Intermittent flow reversal was seen in the reflected shock interaction near the channel centerline, though not in the corners. The data suggest the presence of vortical structures generated near the channel centerline and pushed towards the sidewalls. Following the characterization of the base case, a Monte Carlo experiment was performed in which geometric perturbations were installed along the bottom wall of the wind tunnel and their effect on the flow was studied. The Monte Carlo device was designed and installed at the location predicted to be most sensitive by CFD. The majority of the locations initially tested displayed minimal sensitivity, with only the largest and most upstream quasi-2D cases showing significant effects on the flow at the corner. The perturbation device was redesigned and moved upstream, and additional quasi-2D cases were tested. It was found that some configurations accelerated the flow and strengthened the primary shock, while others slowed the flow and weakened the shock. Overall, the flow was observed to be very sensitive to some perturbations, but only to those located within a limited range of streamwise positions, and with a wide variety of system responses possible.

Richard McKelvey's classic papers, accompanied by original essays by leading names in the field

A fresh approach to managing risk in the most challenging market conditions Strategic Risk Management presents an innovative approach to portfolio design. Often the risk management function is a series of tripwires that are activated after the portfolio is already in trouble. Strategic Risk Management presents a framework that seeks to integrate the initial portfolio design and the risk management function. Much of the book's research was conducted pre-COVID-19; the market selloff in March 2020 offers a unique out of sample experiment that provides evidence supportive of the approach. A crucial ingredient in this integrative design is to understand the performance of various investment strategies in stressful market conditions. The book begins by measuring the performance of various assets and strategies that purport to provide hedging abilities: such as put options and long gold positions. While put options are an extremely reliable, few would want to give up 700 basis points a year to buy this type of insurance. And even if gold does not have the type of drag that long options strategies do, gold turns out to be an unreliable hedge. We focus on two investments that historically offer impressive protection in adverse events: trend following strategies and quality-based equity strategies. We show that performance of trend following strategies is naturally linked to the payoff of a long call and long put position. This property is particularly useful in mitigating portfolio drawdowns. The book also considers operational strategies such as portfolio rebalancing. Most investors routinely rebalance their portfolios, for example, to a 60/40 equity/bond mix. However, few investors realize that a mechanical rebalancing strategy increases drawdowns and

portfolio risk. The reason is simple. In extended equity sell offs, the rebalancing strategy is to buy, which increases drawdowns. Strategic Risk Management offers an intuitive solution. If the trend following signal suggests that the drawdown will continue, delay the rebalancing. We call this strategic rebalancing. The book contains various other insights, including analyzing the impact of a portfolio strategy that targets a certain risk level. This technique reduces allocations to the riskiest assets when volatility spikes. Given that surges in volatility are usually associated with plunging markets, this strategy also reduces drawdowns. The reader of this book will: Learn how to incorporate risk management into the core portfolio design, rather than treating it as an afterthought; Gain a deeper understanding of concepts such as portfolio rebalancing; Acquire tools to achieve a more balanced return stream through volatility targeting of higher-risk asset classes; Obtain an overview of various defensive strategies, and learn which strategies offer the most reliable and affordable protection; Be equipped with a set of rules that allows for the early detection of strategies or managers that have faded. Strategic Risk Management is a thought-provoking resource for developing your portfolio design and risk management skills.

There is hereby established a department of Farc5try Government to be called the Forestry Department, hereinafter referred to as the Department. This law will regulate the relations between the state and its own forest territories. Throughout the twentieth century, technology and economics drove a dominant logic: bigger was almost always better. It was smart to scale up - to take advantage of classic economies of scale. But in the unscaled economy, size and scale have become a liability. Today's most successful companies - Uber, Airbnb, Amazon, Salesforce - have defied the traditional 'economies of scale' approach by renting scale instead of spending vast amounts of money building it. And a new generation of upstarts is using artificial intelligence to automate tasks that once required expensive investment, enabling them to grow big without the bloat of giant organisations. In *Unscaled*, Hemant Taneja convincingly shows how the unscaled economy is remaking massive, deeply-rooted industries and opening up fantastic possibilities for entrepreneurs, imaginative companies and resourceful individuals. Beyond that, it can be the model for solving some of the world's greatest problems, including climate change and soaring healthcare costs, potentially reversing many of the ills brought on by mass industrialization. The unscale wave has only just started. To succeed in business today, companies, CEOs and leaders everywhere must unlearn what they have been taught - they must embrace an unscaled mindset.

Known for its comprehensive, clear introduction to programmable logic controllers (PLCs), the completely updated *TECHNICIAN'S GUIDE TO PROGRAMMABLE CONTROLLERS*, Seventh Edition, covers theory, hardware, instructions, programming, installation, startup and troubleshooting in a way that makes even complex material easy to understand and apply. The current edition includes all-new color figures, step-by-step programming information and practical examples using the latest software in the Allen-Bradley ControlLogix family of PLCs. Updated and expanded material covers topics such as array instructions, analog configuration, proportional integral derivative (PID) instructions and tuning and industrial communications, as well as an introduction to sequential function chart, function block and structured text programming. The latest PLC hardware, software and instructions are presented along with practical applications and examples throughout the text. Supplementary programming examples using the PLC instructions in the text give readers a better understanding of the various instructions and how they can be combined to create simple yet effective control logic solutions for today's world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

'A thought-provoking look at the technology that is changing the world of business and the benefits, pitfalls, and challenges for society as a whole.' - Kenneth I. Chenault, former chief executive officer, American Express Company  
Throughout the twentieth century, technology and economics drove a dominant logic: bigger was almost always better. It was smart to scale up - to take advantage of classic economies of scale. But in the unscaled economy, size and scale have become a liability. Today's most successful companies - Uber, Airbnb, Amazon, Salesforce - have defied the traditional 'economies of scale' approach by renting scale instead of spending vast amounts of money building it. And a new generation of upstarts is using artificial intelligence to automate tasks that once required expensive investment, enabling them to grow big without the bloat of giant organisations. In *Unscaled*, Hemant Taneja convincingly shows how the unscaled economy is remaking massive, deeply-rooted industries and opening up fantastic possibilities for entrepreneurs, imaginative companies and resourceful individuals. Beyond that, it can be the model for solving some of the world's greatest problems, including climate change and soaring healthcare costs, potentially reversing many of the ills brought on by mass industrialization. The unscale wave has only just started. To succeed in business today, companies, CEOs and leaders everywhere must unlearn what they have been taught - they must embrace an unscaled mindset.

This volume is dedicated to F. I. Karpelevich, an outstanding Russian mathematician who made important contributions to applied probability theory. The book contains original papers focusing on several areas of applied probability and its uses in modern industrial processes, telecommunications, computing, mathematical economics, and finance. It opens with a review of Karpelevich's contributions to applied probability theory and includes a bibliography of his works. Other articles discuss queueing network theory, in particular, in heavy traffic approximation (fluid models). The book is suitable for graduate students, theoretical and applied probabilists, computer scientists, and engineers.

*Unscaled* identifies the forces that are reshaping the global economy and turning one of the fundamental laws of business and society -- the economies of scale -- on its head. An innovative trend combining technology with economics is unraveling behemoth industries -- including corporations, banks, farms, media conglomerates, energy systems, governments, and schools--that have long dominated business and society. Size and scale have become a liability. A new generation of upstarts is using artificial intelligence to automate tasks that once required expensive investment, and

"renting" technology platforms to build businesses for hyper-focused markets, enabling them to grow big without the bloat of giant organizations. In *Unscaled*, venture capitalist Hemant Taneja explains how the unscaled phenomenon allowed Warby Parker to cheaply and easily start a small company, build a better product, and become a global competitor in no time, upending entrenched eyewear giant Luxottica. It similarly enabled Stripe to take on established payment processors throughout the world, and Livongo to help diabetics control their disease while simultaneously cutting the cost of treatment. The unscaled economy is remaking massive, deeply rooted industries and opening up fantastic possibilities for entrepreneurs, imaginative companies, and resourceful individuals. It can be the model for solving some of the world's greatest problems, including climate change and soaring health-care costs, but will also unleash new challenges that today's leaders must address.

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A thorough update to what is already one of the most comprehensive and rigorous texts in the field, the new edition incorporates the many advancements made in remote sensing over the past decade.

*Unscaled: How A. I. and a New Generation of Upstarts Are Creating the Economy of the Future* Piatkus Books

Bioinformatics is an upcoming discipline of Life Sciences. It is an integration of computer science, and mathematical and statistical methods to manage and analyze the biological data. The fundamental issues that directly impact an understanding of life at structural, functional and molecular level, and regulation of gene expression can be studied by using bioinformatics tools. *The Fundamentals of Bioinformatics* is a comprehensive book for undergraduates, postgraduates and research scholars, who urge to learn about theoretical as well as practical aspects of this upcoming field. This pioneering book provides up-to-date information on bioinformatics and emphasizes recent topics like drug design technology, pharmacogenomics, proteomics and genomics. The present textbook will be an asset to Life sciences and technology institutions, since it has been designed based on the prescribed syllabus of various Indian Universities and abroad, and cover all the important topics on Bioinformatics.

Focusing on fundamental principles, *Hydro-Environmental Analysis: Freshwater Environments* presents in-depth information about freshwater environments and how they are influenced by regulation. It provides a holistic approach, exploring the factors that impact water quality and quantity, and the regulations, policy and management methods that are necessary to maintain this vital resource. It offers a historical viewpoint as well as an overview and foundation of the physical, chemical, and biological characteristics affecting the management of freshwater environments. The book concentrates on broad and general concepts, providing an interdisciplinary foundation. The author covers the methods of measurement and classification; chemical, physical, and biological characteristics; indicators of ecological health; and management and restoration. He also considers common indicators of environmental health; characteristics and operations of regulatory control structures; applicable laws and regulations; and restoration methods. The text delves into rivers and streams in the first half and lakes and reservoirs in the second half. Each section centers on the characteristics of those systems and methods of classification, and then moves on to discuss the physical, chemical, and biological characteristics of each. In the section on lakes and reservoirs, it examines the characteristics and operations of regulatory structures, and presents the methods commonly used to assess the environmental health or integrity of these water bodies. It also introduces considerations for restoration, and presents two unique aquatic environments: wetlands and reservoir tailwaters. Written from an engineering perspective, the book is an ideal introduction to the aquatic and limnological sciences for students of environmental science, as well as students of environmental engineering. It also serves as a reference for engineers and scientists involved in the management, regulation, or restoration of freshwater environments.

This book constitutes the thoroughly refereed post-conference proceedings of the 15th International Symposium on Graph Drawing, GD 2007, held in Sydney, Australia, September 24-26, 2007. The 27 full papers and 9 short papers presented together with 2 invited talks, and a report on the graph drawing contest were carefully selected from 74 initial submissions. All current aspects in graph drawing are addressed ranging from foundational and methodological issues to applications for various classes of graphs in a variety of fields.

*Innovations and Advances in Computer, Information, Systems Sciences, and Engineering* includes the proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 2011). The contents of this book are a set of rigorously reviewed, world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics, Technology and Automation, Telecommunications and Networking, Systems, Computing Sciences and Software Engineering, Engineering Education, Instructional Technology,

Assessment, and E-learning.

This book constitutes the refereed proceedings of the Third International Conference on Evolutionary Multi-Criterion Optimization, EMO 2005, held in Guanajuato, Mexico, in March 2005. The 59 revised full papers presented together with 2 invited papers and the summary of a tutorial were carefully reviewed and selected from the 115 papers submitted. The papers are organized in topical sections on algorithm improvements, incorporation of preferences, performance analysis and comparison, uncertainty and noise, alternative methods, and applications in a broad variety of fields.

Provides advice and tools to help Linux system administrators solve problems, offering hacks devoted to concerns such as controlling the authentication process, running a GUI Linux desktop remotely, and managing storage on the network.

This book constitutes the refereed proceedings of the First International Workshop on Numerical Analysis and Its Applications, WNAA'96, held in Rousse, Bulgaria, in June 1996. The 57 revised full papers presented were carefully selected and reviewed for inclusion in the volume; also included are 14 invited presentations. All in all, the book offers a wealth of new results and methods of numerical analysis applicable in computational science, particularly in computational physics and chemistry. The volume reflects that the cooperation of computer scientists, mathematicians and scientists provides new numerical tools for computational scientists and, at the same time, stimulates numerical analysis.

A hands-on introduction to computational statistics from a Bayesian point of view Providing a solid grounding in statistics while uniquely covering the topics from a Bayesian perspective, *Understanding Computational Bayesian Statistics* successfully guides readers through this new, cutting-edge approach. With its hands-on treatment of the topic, the book shows how samples can be drawn from the posterior distribution when the formula giving its shape is all that is known, and how Bayesian inferences can be based on these samples from the posterior. These ideas are illustrated on common statistical models, including the multiple linear regression model, the hierarchical mean model, the logistic regression model, and the proportional hazards model. The book begins with an outline of the similarities and differences between Bayesian and the likelihood approaches to statistics. Subsequent chapters present key techniques for using computer software to draw Monte Carlo samples from the incompletely known posterior distribution and performing the Bayesian inference calculated from these samples. Topics of coverage include: Direct ways to draw a random sample from the posterior by reshaping a random sample drawn from an easily sampled starting distribution The distributions from the one-dimensional exponential family Markov chains and their long-run behavior The Metropolis-Hastings algorithm Gibbs sampling algorithm and methods for speeding up convergence Markov chain Monte Carlo sampling Using numerous graphs and diagrams, the author emphasizes a step-by-step approach to computational Bayesian statistics. At each step, important aspects of application are detailed, such as how to choose a prior for logistic regression model, the Poisson regression model, and the proportional hazards model. A related Web site houses R functions and Minitab macros for Bayesian analysis and Monte Carlo simulations, and detailed appendices in the book guide readers through the use of these software packages. *Understanding Computational Bayesian Statistics* is an excellent book for courses on computational statistics at the upper-level undergraduate and graduate levels. It is also a valuable reference for researchers and practitioners who use computer programs to conduct statistical analyses of data and solve problems in their everyday work.

This book constitutes the refereed proceedings of the 6th European Conference on Genetic Programming, EuroGP 2003, held in Essex, UK in April 2003. The 45 revised papers presented were carefully reviewed and selected from 61 submissions. All current aspects of genetic programming and genetic algorithms are addressed, ranging from foundational, theoretical, and methodological issues to advanced applications in various fields.

This the fifth volume of five from the 28th IMAC on Structural Dynamics and Renewable Energy, 2010,, brings together 146 chapters on Structural Dynamics. It presents early findings from experimental and computational investigations of on a wide range of area within Structural Dynamics, including studies such as Simulation and Validation of ODS Measurements made Using a Continuous SLDV Method on a Beam Excited by a Pseudo Random Signal, Comparison of Image Based, Laser, and Accelerometer Measurements, Modal Parameter Estimation Using Acoustic Modal Analysis, Mitigation of Vortex-induced Vibrations in Long-span Bridges, and Vibration and Acoustic Analysis of Brake Pads for Quality Control.

In *UnHealthcare*, Silicon Valley entrepreneur and investor Hemant Taneja and Jefferson Health CEO Stephen Klasko, along with writer Kevin Maney, make a provocative case for a new data-driven, cloud-based category of healthcare called "health assurance." The authors show how health assurance can be built using today's technology, how it will help us all stay healthier at less cost, and how data from health assurance services can help individuals and officials contain and manage deadly virus outbreaks such as Covid-19. More than just a thesis, *UnHealthcare* is a guide to how entrepreneurs, healthcare professionals, and policymakers can bring health assurance to the mainstream and finally develop a solution to America's healthcare debacle.

EvoWorkshops 2006, of which this volume contains the proceedings, was held in Budapest, Hungary, on April 10–12, 2006, jointly with EuroGP 2006 and EvoCOP 2006.

The book serves both as a reference for various scaled models with corresponding dimensionless numbers, and as a resource for learning the art of scaling. A special feature of the book is the emphasis on how to create software for scaled models, based on existing software for unscaled models. Scaling (or non-dimensionalization) is a mathematical technique that greatly simplifies the setting of input parameters in numerical simulations. Moreover, scaling enhances the understanding of how different physical processes interact in a differential equation model. Compared to the existing literature, where the topic of scaling is frequently encountered, but very often in only a brief and shallow setting, the present book gives much more thorough explanations of how to reason about finding the right scales. This process is highly problem dependent, and therefore the book features a lot of worked examples, from very simple ODEs to systems of PDEs, especially from fluid mechanics. The text is easily accessible and example-driven. The first part on ODEs fits even a lower undergraduate level, while the most advanced multiphysics fluid mechanics examples target the graduate level. The scientific literature is full of scaled models, but in most of the cases, the scales are just stated without thorough mathematical reasoning. This book explains how the scales are found mathematically. This book will be a

valuable read for anyone doing numerical simulations based on ordinary or partial differential equations.

“This superb book is timely and is written with great attention paid to detail, particularly in its referencing of the literature. The book has a wonderful blend of theory and code (MATLAB®) so will be useful both to nonexperts and to experts in the field.” — Alan Laub, Professor, University of California, Los Angeles

The only book devoted exclusively to matrix functions, this research monograph gives a thorough treatment of the theory of matrix functions and numerical methods for computing them. The author's elegant presentation focuses on the equivalent definitions of  $f(A)$  via the Jordan canonical form, polynomial interpolation, and the Cauchy integral formula, and features an emphasis on results of practical interest and an extensive collection of problems and solutions. *Functions of Matrices: Theory and Computation* is more than just a monograph on matrix functions; its wide-ranging content—including an overview of applications, historical references, and miscellaneous results, tricks, and techniques with an  $f(A)$  connection—makes it useful as a general reference in numerical linear algebra. Other key features of the book include development of the theory of conditioning and properties of the Fréchet derivative; an emphasis on the Schur decomposition, the block Parlett recurrence, and judicious use of Padé approximants; the inclusion of new, unpublished research results and improved algorithms; a chapter devoted to the  $f(A)b$  problem; and a MATLAB® toolbox providing implementations of the key algorithms.

**Audience:** This book is for specialists in numerical analysis and applied linear algebra as well as anyone wishing to learn about the theory of matrix functions and state of the art methods for computing them. It can be used for a graduate-level course on functions of matrices and is a suitable reference for an advanced course on applied or numerical linear algebra. It is also particularly well suited for self-study.

**Contents:** List of Figures; List of Tables; Preface; Chapter 1: Theory of Matrix Functions; Chapter 2: Applications; Chapter 3: Conditioning; Chapter 4: Techniques for General Functions; Chapter 5: Matrix Sign Function; Chapter 6: Matrix Square Root; Chapter 7: Matrix  $p$ th Root; Chapter 8: The Polar Decomposition; Chapter 9: Schur-Parlett Algorithm; Chapter 10: Matrix Exponential; Chapter 11: Matrix Logarithm; Chapter 12: Matrix Cosine and Sine; Chapter 13: Function of Matrix Times Vector:  $f(A)b$ ; Chapter 14: Miscellany; Appendix A: Notation; Appendix B: Background: Definitions and Useful Facts; Appendix C: Operation Counts; Appendix D: Matrix Function Toolbox; Appendix E: Solutions to Problems; Bibliography; Index.

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