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Making Things Move DIY
Mechanisms for Inventors,
Hobbyists, and Artists Columbia
University Press

Gain the fundamentals of x86 64-bit assembly language programming and focus on the updated aspects of the x86 instruction set that are most relevant to application software development. This book covers topics including x86 64-bit programming and Advanced Vector Extensions (AVX) programming. The focus in this second edition is exclusively on 64-bit base programming architecture and AVX

programming. Modern X86 Assembly Language Programming ' s structure and sample code are designed to help you quickly understand x86 assembly language programming and the computational capabilities of the x86 platform. After reading and using this book, you ' ll be able to code performance-enhancing functions and algorithms using x86 64-bit assembly language and the AVX, AVX2 and AVX-512 instruction set extensions. What You Will Learn Discover details of the x86 64-bit platform including its core architecture, data types, registers, memory addressing modes, and the basic instruction set Use the x86 64-bit instruction set to create performance-enhancing functions that are callable from a high-level language (C+ +) Employ x86 64-bit assembly language to efficiently manipulate common data

types and programming constructs including integers, text strings, arrays, and structures Use the AVX instruction set to perform scalar floating-point arithmetic Exploit the AVX, AVX2, and AVX-512 instruction sets to significantly accelerate the performance of computationally-intense algorithms in problem domains such as image processing, computer graphics, mathematics, and statistics Apply various coding strategies and techniques to optimally exploit the x86 64-bit, AVX, AVX2, and AVX-512 instruction sets for maximum possible performance Who This Book Is For Software developers who want to learn how to write code using x86 64-bit assembly language. It ' s also ideal for software developers who already have a basic understanding of x86 32-bit or 64-bit assembly language programming and are interested in learning how to exploit the SIMD capabilities of AVX, AVX2 and AVX-512.

Writing and Literature John Wiley & Sons
Everything educators need to know to enhance learning for ESL students This unique teacher time-saver includes scores of helpful, practical lists that may be reproduced for classroom use or referred to in the development of instructional materials and lessons. The material contained in this book helps K-12 teachers reinforce and

enhance the learning of grammar, vocabulary, pronunciation, and writing skills in ESL students of all ability levels. For easy use and quick access, the lists are printed in a format that can be photocopied as many times as required. A complete, thoroughly updated glossary at the end provides an indispensable guide to the specialized language of ESL instruction.

Exploring Apple Code Through Lldb, Python and Dtrace Springer Science & Business Media
Learn to find software bugs faster and discover how other developers have solved similar problems. For intermediate to advanced iOS/macOS developers already familiar with either Swift or Objective-C who want to take their debugging skills to the next level, this book includes topics such as: LLDB and its subcommands and options; low-level components used to extract information from a program; LLDB's Python module; and DTrace and how to write D scripts.

Modern X86 Assembly Language Programming CRC Press
Official U.S. edition with full color illustrations throughout. NEW YORK TIMES BESTSELLER Yuval Noah Harari, author of the critically-acclaimed New York Times bestseller and international phenomenon *Sapiens*, returns with an equally original, compelling, and provocative book, turning his focus toward humanity ' s future, and our quest to upgrade humans into gods. Over the past century humankind has managed to do the impossible and rein in famine, plague, and war. This may seem hard to accept, but, as Harari explains in his trademark style—thorough, yet riveting—famine, plague and war have been transformed from incomprehensible and

uncontrollable forces of nature into manageable challenges. For the first time ever, more people die from eating too much than from eating too little; more people die from old age than from infectious diseases; and more people commit suicide than are killed by soldiers, terrorists and criminals put together. The average American is a thousand times more likely to die from binging at McDonalds than from being blown up by Al Qaeda. What then will replace famine, plague, and war at the top of the human agenda? As the self-made gods of planet earth, what destinies will we set ourselves, and which quests will we undertake? Homo Deus explores the projects, dreams and nightmares that will shape the twenty-first century—from overcoming death to creating artificial life. It asks the fundamental questions: Where do we go from here? And how will we protect this fragile world from our own destructive powers? This is the next stage of evolution. This is Homo Deus. With the same insight and clarity that made Sapiens an international hit and a New York Times bestseller, Harari maps out our future.

Engineering in K-12 Education Amer Chemical Society

Get Your Move On! In Making Things Move: DIY Mechanisms for Inventors, Hobbyists, and Artists, you'll learn how to successfully build moving mechanisms through non-technical explanations, examples, and do-it-yourself projects--from kinetic art installations to creative toys to energy-harvesting devices. Photographs, illustrations, screen shots, and images of 3D models are included for each project. This unique resource emphasizes using off-the-shelf components, readily available materials, and accessible fabrication techniques. Simple projects give you hands-on practice applying the skills covered in each chapter, and more complex projects at the end of the book incorporate topics from multiple chapters. Turn your imaginative ideas into reality with help from this practical, inventive guide. Discover how to: Find and select materials Fasten and join parts Measure force, friction, and torque Understand mechanical and electrical power, work, and energy Create and control motion Work with bearings,

couplers, gears, screws, and springs Combine simple machines for work and fun Projects include: Rube Goldberg breakfast machine Mousetrap powered car DIY motor with magnet wire Motor direction and speed control Designing and fabricating spur gears Animated creations in paper An interactive rotating platform Small vertical axis wind turbine SADbot: the seasonally affected drawing robot Make Great Stuff! TAB, an imprint of McGraw-Hill Professional, is a leading publisher of DIY technology books for makers, hackers, and electronics hobbyists.

Convex Optimization Wiley

This is the perfect book for the professional Engineer This notebook is perfect for students or fully educated engineers who want to record essential notes and drawings. The pages are numbered. It got a table of contents. You can put in researcher and witness signatures and dates. In standard format of 8x10 inch(20,3 x 25,4cm) and with cream pages. There is a variety of covers choose from! have a look at our Author Page for more options and designs.

Modern Robotics Mathematics for Machine Learning Leverage Big Data analytics methodologies to add value to geophysical and petrophysical exploration data Enhance Oil & Gas Exploration with Data-Driven Geophysical and Petrophysical Models demonstrates a new approach to geophysics and petrophysics data analysis using the latest methods drawn from Big Data. Written by two geophysicists with a combined 30 years in the industry, this book shows you how to leverage continually maturing computational intelligence to gain deeper insight from specific exploration data. Case studies illustrate the value propositions of this alternative analytical workflow, and in-depth discussion addresses the many Big Data issues in geophysics and petrophysics. From data collection and context through real-world everyday applications, this book provides an essential resource for anyone involved in oil and gas exploration. Recent and continual advances in machine learning are driving a rapid increase in empirical modeling capabilities. This book shows you how these new tools and methodologies can enhance geophysical and petrophysical data analysis, increasing the value of your exploration data. Apply data-driven modeling concepts in a geophysical and petrophysical context Learn how to get more

information out of models and simulations Add value to everyday tasks with the appropriate Big Data application Adjust methodology to suit diverse geophysical and petrophysical contexts Data-driven modeling focuses on analyzing the total data within a system, with the goal of uncovering connections between input and output without definitive knowledge of the system's physical behavior. This multi-faceted approach pushes the boundaries of conventional modeling, and brings diverse fields of study together to apply new information and technology in new and more valuable ways. Enhance Oil & Gas Exploration with Data-Driven Geophysical and Petrophysical Models takes you beyond traditional deterministic interpretation to the future of exploration data analysis.

A VLIW Approach to Architecture, Compilers and Tools University of North Georgia

Our responses to our thermal environment have a considerable effect on our performance and behavior, not least in the realm of work. There has been considerable scientific investigation of these responses and formal methods have been developed for environmental evaluation and design. In recent years these have been developed to the extent that detailed national and international standards of practice have now become feasible. This new edition of Ken Parson's definitive text brings us back up to date. He covers hot, moderate and cold environments, and defines these in terms of six basic parameters: air temperature, radiate temperature, humidity, air velocity, clothing worn, and the person's activity. There is a focus on the principles and practice of human response, which incorporates psychology, physiology and environmental physics with applied ergonomics. Water requirements, computer modeling and computer-aided design are brought in, as are current standards. Special populations, such as the aged or disabled and specialist environments such as those found in vehicles are also considered. This book continues to be the standard text for the design of environments for humans to live and work safely, comfortably and effectively, and for the design of materials which help the same

people cope with their environments.

An Introduction John Wiley & Sons

Get a realistic guide to producing construction documents that clearly communicate the interior space of new construction, remodeling, or installation projects with Construction Drawings and Details for Interiors. This highly visual book: includes such details as furniture, finishes, lighting, and others. features authors' drawings as well as those from practicing professionals. covers drafting fundamentals and conventions; drawing types, plans, and schedules; and computer-aided design. addresses graphic language as a communication tool. details the process of creating construction documents, the use of computers, and various reproduction systems and standards. includes examples of both residential and commercial interiors. is an essential reference for NCIDQ examination. Order your copy today.

An Active Learning Approach CRC Press

In the age of Buzzfeeds, hashtags, and Tweets, students are increasingly favoring conversational writing and regarding academic writing as less pertinent in their personal lives, education, and future careers. Writing and Literature: Composition as Inquiry, Learning, Thinking and Communication connects students with works and exercises and promotes student learning that is kairotic and constructive. Dr. Tanya Long Bennett, professor of English at the University of North Georgia, poses questions that encourage active rather than passive learning. Furthering ideas presented in Contribute a Verse: A Guide to First-Year Composition as a complimentary companion, Writing and Literature builds a new conversation covering various genres of literature and writing. Students learn the various writing styles appropriate for analyzing, addressing, and critiquing these genres including poetry, novels, dramas, and research writing. The text and its pairing of helpful visual aids throughout emphasizes the importance of critical reading and analysis in

producing a successful composition. Writing and Literature is a refreshing textbook that links learning, literature, and life.

Advanced Calculus John Wiley & Sons

Does technology change who we are, and if so, in what ways? Can humanity transcend physical bodies and spaces? Will AI and genetic engineering help us reach new heights or will they unleash dystopias? How do we face mortality, our own and that of our warming planet? Questions like these—which are only growing more urgent—can be answered only by drawing on different kinds of knowledge and ways of knowing. They challenge us to bridge the divide between the sciences and the humanities and bring together perspectives that are too often kept apart. Great Minds Don't Think Alike presents conversations among leading scientists, philosophers, historians, and public intellectuals that exemplify openness to diverse viewpoints and the productive exchange of ideas. Pulitzer and Templeton Prize winners, MacArthur "genius" grant awardees, and other acclaimed writers and thinkers debate the big questions: who we are, the nature of reality, science and religion, consciousness and materialism, and the mysteries of time. In so doing, they also inquire into how uniting experts from different areas of study to consider these topics might help us address the existential risks we face today.

Convened and moderated by the physicist and author Marcelo Gleiser, these public dialogues model constructive engagement between the sciences and the humanities—and show why intellectual cooperation is necessary to shape our collective future. Contributors include David Chalmers and Antonio Damasio; Sean Carroll and B. Alan Wallace; Patricia Churchland and Jill Tarter; Rebecca Goldstein and Alan Lightman; Jimena Canales and Paul Davies; Ed Boyden and Mark O'Connell; Elizabeth Kolbert and Siddhartha Mukherjee; Jeremy DeSilva, David Grinspoon, and Tasneem Zehra Husain.

Human Thermal Environments McGraw-Hill
Science Engineering

This book presents a unique examination of mobile robots and embedded systems, from introductory to intermediate level. It is structured in three parts, dealing with Embedded Systems (hardware and software design, actuators, sensors, PID control, multitasking), Mobile Robot Design (driving, balancing, walking, and flying robots), and Mobile Robot Applications (mapping, robot soccer, genetic algorithms, neural networks, behavior-based systems, and simulation). The book is written as a text for courses in computer science, computer engineering, IT, electronic engineering, and mechatronics, as well as a guide for robot hobbyists and researchers.

Emoji Reading, Mass. ; Don Mills, Ont. :

Addison-Wesley Publishing Company

Instead of presenting the standard theoretical treatments that underlie the various numerical methods used by scientists and engineers, Using R for Numerical Analysis in Science and Engineering shows how to use R and its add-on packages to obtain numerical solutions to the complex mathematical problems commonly faced by scientists and engineers. This practical guide to the capabilities of R demonstrates Monte Carlo, stochastic, deterministic, and other numerical methods through an abundance of worked examples and code, covering the solution of systems of linear algebraic equations and nonlinear equations as well as ordinary differential equations and partial differential equations. It not only shows how to use R's powerful graphic tools to construct the types of plots most useful in scientific and engineering work, but also: Explains how to statistically analyze and fit data to linear and nonlinear models Explores numerical differentiation, integration, and optimization Describes how to find eigenvalues and eigenfunctions Discusses interpolation and curve fitting Considers the analysis of time series Using R for Numerical Analysis in

Science and Engineering provides a solid introduction to the most useful numerical methods for scientific and engineering data analysis using R.

Revised Addison-Wesley Professional

Combining classical design principles with historical and modern examples of engineering design, this text offers a well-rounded introduction to the subject.

Advanced Apple Debugging & Reverse Engineering American Mathematical Soc.

This practical, example-driven introduction teaches the foundations of the Mathematica language so it can be applied to solving concrete problems.

Fundamentals of Electric Propulsion Pearson College Division

Building on the basic techniques of separation of variables and Fourier series, the book presents the solution of boundary-value problems for basic partial differential equations: the heat equation, wave equation, and Laplace equation, considered in various standard coordinate systems--rectangular, cylindrical, and spherical. Each of the equations is derived in the three-dimensional context; the solutions are organized according to the geometry of the coordinate system, which makes the mathematics especially transparent. Bessel and Legendre functions are studied and used whenever appropriate throughout the text. The notions of steady-state solution of closely related stationary solutions are developed for the heat equation; applications to the study of heat flow in the earth are presented. The problem of the vibrating string is studied in detail both in the Fourier transform setting and from the viewpoint of the explicit representation (d'Alembert formula). Additional chapters include the numerical analysis of solutions and the method of Green's functions for solutions of partial differential equations. The exposition also includes asymptotic methods

(Laplace transform and stationary phase).

With more than 200 working examples and 700 exercises (more than 450 with answers), the book is suitable for an undergraduate course in partial differential equations.

Homo Deus World Scientific Publishing Company

2 inside patterns : Lined,Blank No Lined with 60 pages per each, total 120 Pages - Perfect size at 7"x 10" -Perfect Size for notebook, to-do list, and summarized what you have realized each day. Easy writing and smooth paper is perfected for pen and pencil noted. -

Get your journal today! Motivational adults Journal blank pages Journal Book Journal Book For Kids Journal Book For Women Journal Books Notebook Journal Boys Journal For Teens Journal For Writing Journal Lined Pages Journal Lined Paper Journal Men Journal Notebook Journal Notebook For Men Journal Notebook for Women Journal Ruled Journal Vintage Journal Writing Journals and Notebooks Journals For Girls Journals For Men Journals For Women Journals For Writing Journals To Write In Journals To Write In For Girls Journals To Write In For Kids Journals To Write In For Men Journals To Write In For Women Journals To Write In Lined Pages Pretty Journals For Girls Pretty

Basic Skills Pearson College Division

Aimed at secondary school science and English teachers, this book presents practical advice for developing good student writing in science and mathematics. Five main sections cover: (1) an essay development workshop; (2) 47 specific writing assignments; (3) over 30 questions teachers ask about science writing, and the answers; (4) an anthology of 43 selections of science writing from Shakespeare, Darwin, Freud, Carl Sagan, Rachel Carson, and others; and (5) an annotated bibliography of over 150 books useful for the teaching of science writing. An

appendix by Russel W. Kenyon discusses teaching math writing. (RS)

Learning LEGO MINDSTORMS EV3 Corwin Press

Describes in general how scientists can use handwritten research notebooks as a tool to record their research in progress, and in particular the legal protocols for industrial scientists to handwrite their research in progress so they can establish priority of invention in case a patent suit arises.

Covers x86 64-bit, AVX, AVX2, and AVX-512
Cambridge University Press

The fact that there are more embedded computers than general-purpose computers and that we are impacted by hundreds of them every day is no longer news. What is news is that their increasing performance requirements, complexity and capabilities demand a new approach to their design. Fisher, Faraboschi, and Young describe a new age of embedded computing design, in which the processor is central, making the approach radically distinct from contemporary practices of embedded systems design. They demonstrate why it is essential to take a computing-centric and system-design approach to the traditional elements of nonprogrammable components, peripherals, interconnects and buses. These elements must be unified in a system design with high-performance processor architectures, microarchitectures and compilers, and with the compilation tools, debuggers and simulators needed for application development. In this landmark text, the authors apply their expertise in highly interdisciplinary hardware/software development and VLIW processors to illustrate this change in embedded computing. VLIW architectures have long been a popular choice in embedded systems design, and while VLIW is a running theme throughout the book, embedded computing is the core topic. Embedded Computing examines both in a book filled with fact and opinion based on the authors many years of R&D experience. ·

Complemented by a unique, professional-quality

embedded tool-chain on the authors' website, <http://www.vliw.org/book> · Combines technical depth with real-world experience · Comprehensively explains the differences between general purpose computing systems and embedded systems at the hardware, software, tools and operating system levels. · Uses concrete examples to explain and motivate the trade-offs.