Jane Liu Real Time System Solution Manual

Geneticists and molecular biologists have been interested in quantifying genes and their products for many years and for various reasons (Bishop, 1974). Early molecular methods were based on molecular hybridization, and were devised shortly after Marmur and Doty (1961) first showed that denaturation of the double helix could be reversed - that the process of molecular reassociation was exquisitely sequence dependent. Gillespie and Spiegelman (1965) developed a way of using the method to titrate the number of copies of a probe within a target sequence in which the target sequence was fixed to a membrane support prior to hybridization with the probe - typically a RNA. Thus, this was a precursor to many of the methods still in use, and indeed under development, today. Early examples of the application of these methods included the measurement of the copy numbers in gene families such as the ribosomal genes and the immunoglo bulin family. Amplification of genes in tumors and in response to drug treatment was discovered by this method. In the same period, methods were invented for estimating gene num bers based on the kinetics of the reassociation process - the so-called Cot analysis. This method, which exploits the dependence of the rate of reassociation on the concentration of the two strands, revealed the presence of repeated sequences in the DNA of higher eukaryotes (Britten and Kohne, 1968). An adaptation to RNA, Rot analysis (Melli and Bishop, 1969), was used to measure the abundance of RNAs in a mixed population.

Today's embedded and real-time systems contain a mix of processor types: off-the-shelf microcontrollers, digital signal processors (DSPs), and custom processors. The decreasing cost of DSPs has made these sophisticated chips very attractive for a number of embedded and real-time applications, including automotive, telecommunications, medical imaging, and many others—including even some games and home appliances. However, developing embedded and real-time DSP applications is a complex task influenced by many parameters and issues. DSP Software Development Techniques for Embedded and Real-Time Systems is an introduction to DSP software development for embedded and real-time developers giving details on how to use digital signal processors efficiently in embedded and real-time systems. The book covers software and firmware design principles, from processor architectures and basic theory to the selection of appropriate languages and basic algorithms. The reader will find practical guidelines, diagrammed techniques, tool descriptions, and code templates for developing and optimizing DSP software and firmware. The book also covers integrating and testing DSP systems as well as managing the DSP development effort. Digital signal processors (DSPs) are the future of microchips! Includes practical guidelines, diagrammed techniques, tool descriptions, and code templates to aid in the development and optimization of DSP software and firmware

Nineteen-year-old Na has always lived in the shadow of her younger brother, Bao-bao, her parents' cherished son. Years ago, Na's parents left her in the countryside and went to work in the city, bringing Bao-bao along and committing everything to his education. But when Bao-bao dies suddenly, Na realizes how little she knew him. Did he really kill himself because of a low score on China's all-important college entrance exam? Na learns that Bao-bao had many secrets and that his death may not be what it seems. Na's parents expect her to quit her vocational school and go to work, forcing Na to confront traditional expectations for and pressures on young women.

The Hidden Valley
Cancer Stem Cells
Predictable Scheduling Algorithms and Applications
Civic Sermons on Love, Responsibility, and Democracy
Introduction to Microprocessors and Microcontrollers
Terrene

Assuming only a general science education this book introduces the workings of the microprocessor, its applications, and programming in assembler and high level languages such as C and Java. Practical work and knowledge-check questions contribute to building a thorough understanding with a practical focus. The book concludes with a step-by-step walk through a project based on the PIC microcontroller. The concise but clearly written text makes this an ideal book for electronics and IT students and a wide range of technicians and engineers, including IT systems support staff, and maintenance / service engineers. *Crisp's conversational style introduces the fundamentals of the micro (microprocessors, microcontrollers, systems on a chip) in a way that is utterly painless but technically spot-on: the talent of a true teacher. *Microprocessors and microcontrollers are covered in one book, reflecting the importance of embedded systems in today's computerised world. *Practical work and knowledge-check questions support a lively text to build a firm understanding of the subject.

What does it mean to be an engaged American in today's divided political landscape, and how do we restore hope in our country? In a collection of "civic sermons" delivered at gatherings around the nation, popular advocate for active citizenship Eric Liu takes on these thorny questions and provides inspiration and solace in a time of anger, fear, and dismay over the state of the Union. Here are 19 stirring explorations of current and timeless topics about democracy, liberty, equal justice, and powerful citizenship. This book will energize you to get involved, in ways both large and small, to help rebuild a country that you're proud to call home. Become America will challenge you to rehumanize our politics and rekindle a spirit of love in civic life.

As the world has been reshaped since the 1970s by neoliberalism and globalization, increasing financial abstraction has presented a new political urgency for contemporary writers. Globalized finance, the return to Gilded Age levels of inequality, and the emergence of new technologies pose a similar challenge to the one faced by American social realists a century ago: making the virtualization of capitalism legible within the conventions of the realist novel. In The Financial Imaginary, Alison Shonkwiler reads texts by Richard Powers, Don DeLillo, Jane Smiley, Teddy Wayne, and Mohsin Hamid to examine how fiction confronts the formal and representational mystifications of the economic. As Shonkwiler shows, these contemporary writers navigate the social, moral, and class preoccupations of American "economic fiction" (as shaped by such writers as William Dean Howells, Henry James, Frank Norris, and Theodore Dreiser), even as they probe the novel's inadequacies to tell the story of an increasingly abstract world system. Drawing a connection from historical and theoretical accounts of financialization to the formal contours of contemporary fiction, The Financial Imaginary examines the persistent yet vexed relationship between financial representation and the demands of literary realism. It argues that the novel is essential to understanding our relation to the mystifications of abstraction past and present.

Your one-step guide to understanding industrial cyber security, its control systems, and its operations. About This Book Learn about endpoint protection such as anti-malware implementation, updating, monitoring, and sanitizing user workloads and mobile devices Filled with practical examples to help you secure critical infrastructure systems efficiently A step-by-step guide that will teach you the techniques and methodologies of building robust infrastructure systems Who This Book Is For If you are a security professional and want to ensure a robust environment for critical infrastructure systems, this book is for you. IT professionals interested in getting into the cyber security domain or who are looking at gaining industrial cyber security certifications will also find this book useful. What You Will Learn Understand industrial cybersecurity, its control systems and operations Design security-oriented architectures, network segmentation, and security support services Configure event monitoring systems, anti-malware applications, and endpoint security Gain knowledge of ICS risks, threat detection, and access management Learn about patch management and life cycle management Secure your industrial control systems from design through retirement In Detail With industries expanding, cyber attacks have increased significantly. Understanding your control system's vulnerabilities and learning techniques to defend critical infrastructure systems from cyber threats is increasingly important. With the help of real-world use cases, this book will teach you the methodologies and security measures necessary to protect critical infrastructure systems and will get you up to speed with identifying unique challenges.Industrial cybersecurity begins by introducing Industrial Control System (ICS) technology, including ICS architectures, communication media, and protocols. This is followed by a presentation on ICS (in) security. After presenting an ICS-related attack scenario, securing of the ICS is discussed, including topics such as network segmentation, defense-in-depth strategies, and protective solutions. Along with practical examples for protecting industrial control systems, this book details security assessments, risk management, and security program development. It also covers essential cybersecurity aspects, such as threat detection and access management. Topics related to endpoint hardening such as monitoring, updating, and anti-malware implementations are also discussed. Style and approach A step-by-step guide to implement Industrial Cyber Security effectively.

POSIX.4 Programmers Guide
English for the Media
Become America
Linear Systems Analysis
Gene Quantification
A History of Capitalism in China and India

The first book to provide a comprehensive overview of the subject rather than a collection of papers. The author is a recognized authority in the field as well as an outstanding teacher lauded for his ability to convey these concepts clearly to many different audiences. A handy reference for practitioners in the field.

Build a strong foundation in designing and implementing real-time systems with the help of practical examples Key Features Get up and running with the fundamentals of RTOS and apply them on STM32 Enhance your programming skills to design and build real-world embedded systems Get to grips with advanced techniques for implementing embedded systems Book Description A real-time operating system (RTOS) is used to develop systems that respond to events within strict timelines. Real-time embedded systems have applications in various industries, from automotive and aerospace through to laboratory test equipment and consumer electronics. These systems provide consistent and reliable timing and are designed to run without intervention for years. This microcontrollers book starts by introducing you to the concept of RTOS and compares some other alternative methods for achieving real-time performance. Once you've understood the fundamentals, such as tasks, queues, mutexes, and semaphores, you'll learn what to look for when selecting a microcontroller and development environment. By working through examples that use an STM32F7 Nucleo board, the STM32CubeIDE, and SEGGER debug tools, including SEGGER J-Link, Ozone, and SystemView, you'll gain an understanding of preemptive scheduling policies and task communication. The book will then help you develop highly efficient low-level drivers and analyze their real-time performance and CPU utilization. Finally, you'll cover tips for troubleshooting and be able to take your new-found skills to the next level. By the end of this book, you'll have built on your embedded system skills and will be able to create real-time systems using microcontrollers and FreeRTOS. What you will learn Understand when to use an RTOS for a project Explore RTOS concepts such as tasks, mutexes, semaphores, and queues Discover different microcontroller units (MCUs) and choose the best one for your project Evaluate and select the best IDE and middleware stack for your project Use professional-grade tools for analyzing and debugging your application Get FreeRTOS-based applications up and running on an STM32 board Who this book is for This book is for embedded engineers, students, or anyone interested in learning the complete RTOS feature set with embedded devices. A basic understanding of the C programming language and embedded systems or microcontrollers will be helpful.

Award-winning author Chen Qiufan's Waste Tide is a thought-provoking vision of the future. Translated by Ken Liu, who brought Cixin Liu's Hugo Award-winning The Three Body Problem to English-speaking readers. Mimi is drowning in the world's trash. She's a waste worker on Silicon Isle, where electronics -- from cell phones and laptops to bots and bionic limbs — are sent to be recycled. These amass in towering heaps, polluting every spare inch of land. On this island off the coast of China, the fruits of capitalism and consumer culture come to a toxic end. Mimi and thousands of migrant waste workers like her are lured to Silicon Isle with the promise of steady work and a better life. They're the lifeblood of the island's economy, but are at the mercy of those in power. A storm is brewing, between ruthless local gangs, warring for control. Ecoterrorists, set on toppling the status quo. American investors, hungry for profit. And a Chinese-American interpreter, searching for his roots. As these forces collide, a war erupts -- between the rich and the poor; between tradition and modern ambition; between humanity's past and its future. Mimi, and others like her, must decide if they will remain pawns in this war or change the rules of the game altogether. "An accomplished eco-techno-thriller with heart and soul as well as brain. Chen Qiufan is an astute observer, both of the present world and of the future that the next generation is in danger of inheriting." – David Mitchell, New York Times bestselling author of Cloud Atlas

"A master absurdist...Highly recommended." —The New York Times Before the success of her debut SF-and-fantasy novel All the Birds in the Sky, Charlie Jane Anders was a rising star in SF and fantasy short fiction. Collected in a mini-book format, here—for the first time in print—are six of her quirky, wry, engaging best: In "The Fermi Paradox Is Our Business Model," aliens reveal the terrible truth about how humans were created—and why we'll never discover aliens. "As Good as New" is a brilliant twist on the tale of three wishes, set after the end of the world. "Intestate" is about a family reunion in which some attendees aren't quite human anymore—but they're still family. "The Cartography of Sudden Death" demonstrates that when you try to solve a problem with time travel, you now have two problems. "Six Months, Three Days" is the story of the love affair between a man who can see the one true foreordained future, and a woman who can see all the possible futures. They're both right, and the story won the 2012 Hugo Award for Best Novelette. And "Clover," exclusively written for this collection, is a coda to All the Birds in the Sky, answering the burning question of what happened to Patricia's cat. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Hands-On RTOS with Microcontrollers
Timber
The Chinese Navy
Fugitive Visions
Building real-time embedded systems using FreeRTOS, STM32 MCUs, and SEGGER debug tools
Unseen Warhol

'... a very good balance between the theory and practice of real-time embedded system designs.' —Jun-ichiro itojun Hagino, Ph.D., Research Laboratory, Internet Initiative Japan Inc., IETF IPv6 Operations Working Group (v6ops) co-chair 'A cl

Timber is a vital resource that is all around us. It is the house that shelters us, the furniture we relax in, the books we read, the paper we print, the disposable diapers for our babies, and the boxes that contain our cereal, detergent, and new appliances. The way we produce and consume timber, however, is changing. With international timber companies and big box discount retailers increasingly controlling through global commodity chains where and how much timber is traded, the world's remaining old-growth forests, particularly in the developing world, are under threat of disappearing - all for the price of a consumer bargain. This trailblazing book is the first to expose what's happening inside corporate commodity chains with conclusions that fundamentally challenge our understanding of how and why deforestation persists. Authors Peter Dauvergne and Jane Lister reveal how timber now moves through long and complex supply chains from the forests of the global South through the factories of emerging economies like China to the big box retail shelves of Europe and North America. Well-off consumers are getting unprecedented deals. But the social and environmental costs are extraordinarily high as corporations mine the world's poorest regions and most vulnerable ecosystems. The growing power of big retail within these commodity chains is further increasing South-North inequities and unsustainable global consumption. Yet, as this book's highly original analysis uncovers, it is also creating some intriguing opportunities to promote more responsible business practices and better global forest governance.

This practical new book provides much-needed, practical, hands-on experience capturing analysis and design in UML. It holds the hands of engineers making the difficult leap from developing in C to the higher-level and more robust Unified Modeling Language, thereby supporting professional development for engineers looking to broaden their skill-sets in order to become more saleable in the job market. It provides a laboratory environment through a series of progressively more complex exercises that act as building blocks, illustrating the various aspects of UML and its application to real-time and embedded systems. With its focus on gaining proficiency, it goes a significant step beyond basic UML overviews, providing both comprehensive methodology and the best level of supporting exercises available on the market. Each exercise has a matching solution which is thoroughly explained step-by-step in the back of the book. The techniques used to solve these problems come from the author's decades of experience designing and constructing real-time systems. After the exercises have been successfully completed, the book will act as a desk reference for engineers, reminding them of how many of the problems they face in their designs can be solved. Tutorial style text with keen focus on in-depth presentation and solution of real-world example problems Highly popular, respected and experienced author

An unprecedented, unflinching, warts-and-all rags to riches story of one of China's most successful female entrepreneurs.
The Financial Imaginary
An Adoptee's Return to Korea
The Hidden Girl and Other Stories
Breaking the Bamboo Ceiling
The Wedding Party
Programming for the Real World

A continuation of the personal account in The Language of Blood follows the author's journeys into adult life in her birth country, where she draws on her musical training to inform her choices while struggling to make sense of cultural disparities. Original.
MicroC/OS II Second Edition describes the design and implementation of the MicroC/OS-II real-time operating system (RTOS). In addition to its value as a reference to the kernel, it is an extremely detailed and highly readable design study particularly useful to the embedded systems student. While documenting the design and implementation of the ker
This work covers all the major issues that go into designing a real-time system, including task allocation, synchronization, fault-tolerance and reliability. Also included are exercises, performance measures, scheduling, real-time architectures and algorithms.
The presence and use of real-time systems is becoming increasingly common. Examples of such systems range from nuclear reactors, to automotive controllers, and also entertainment software such as games and graphics animation. The growing importance of rea.
Tea War
MicroC/OS-II

Scheduling, Analysis, and Verification
Like Spilled Water
Design Principles for Distributed Embedded Applications

Item consists of interviews with people who knew Andy Warhol.
This updated edition offers an indispensable exposition on real-time computing, with particular emphasis on predictable scheduling algorithms. It introduces the fundamental concepts of real-time computing, demonstrates the most significant results in the field, and provides the essential methodologies for designing predictable computing systems used to support time-critical control applications. Along with an in-depth guide to the available approaches for the implementation and analysis of real-time applications, this revised edition contains a close examination of recent developments in real-time systems, including limited preemptive scheduling, resource reservation techniques, overload handling algorithms, and adaptive scheduling techniques. This volume serves as a fundamental advanced-level textbook. Each chapter provides basic concepts, which are followed by algorithms, illustrated with concrete examples, figures and tables. Exercises and solutions are provided to enhance self-study, making this an excellent reference for those interested in real-time computing for designing and/or developing predictable control applications.
Written in an informal, informative style, this authoritative guide goes way beyond the standard reference manual. It discusses each of the POSIX.4 facilities and what they mean, why and when you would use each of these facilities, and trouble spots you might run into. c.
Information usually has the highest value when it is fresh. For example, real-time knowledge about the location, orientation, and speed of motor vehicles is imperative in autonomous driving, and the access to timely information about stock prices and interest rate movements is essential for developing trading strategies on the stock market. The Age of Information (AoI) concept, together with its recent extensions, provides a means of quantifying the freshness of information and an opportunity to improve the performance of real-time systems and networks. Recent research advances on AoI suggest that many well-known design principles of traditional data networks (for, e.g., providing high throughput and low delay) need to be re-examined for enhancing information freshness in rapidly emerging real-time applications. This book provides a suite of analytical tools and insightful results on the generation of information-update packets at the source nodes and the design of network protocols forwarding the packets to their destinations. The book also points out interesting connections between AoI concept and information theory, signal processing, and control theory, which are worthy of future investigation.
DSP Software Development Techniques for Embedded and Real-Time Systems
The Real Time Kernel
Waste Tide
Shadow Girl
Career Strategies for Asians
Drowned Worlds

A history of capitalism in nineteenth- and twentieth-century China and India exploring the competition between their tea industriesTea remains the world’s most popular commercial drink today, and at the turn of the twentieth century, it represented the largest export industry of both China and colonial India. In analyzing the global competition between Chinese and Indian tea, Andrew B. Liu challenges past economic histories premised on the technical “divergence” between the West and the Rest, arguing instead that seemingly traditional technologies and practices were central to modern capital accumulation across Asia. He shows how competitive pressures compelled Chinese merchants to adopt abstract, industrial conceptions of time, while colonial planters in India pushed for labor indenture laws to support factory-style tea plantations. Further, characterizations of China and India as premodern backwaters, he explains, were themselves the historical result of new notions of political economy adopted by Chinese and Indian nationalists, who discovered that these abstract ideas corresponded to concrete social changes in their local surroundings. Together, these stories point toward a more flexible and globally oriented conceptualization of the history of capitalism in China and India.
Real-Time Systems
Cancer Stem Cells: Targeting the Roots of Cancer, Seeds of Metastasis, and Sources of Therapy Resistance introduces the basic concepts and advanced understanding of cancer stem cells, covering general overviews, organ-specific identifications, and their characteristic mechanisms. The book also explores innovative therapeutic strategies in preclinical and clinical trials to target cancer stem cells, remove the roots of cancer, eliminate the seeds of metastasis, overcome the resistance of therapies, and contribute to the eradication of cancer. The book includes contributions from leading, worldwide experts in the field, helping readers embrace new hope in their quest to eradicate cancer with emerging clinical trials on treating cancer stem cells in combination with other therapies. Provides an authoritative and complete overview of cancer stem cells Includes comprehensive coverage of current therapeutic strategies targeting cancer stem cells Deepens a reader’s technical expertise in cancer stem cell biology
Within every person lies the power to change one world. Within Flora lies the hope for two.In the isolated rural valley of Terrene, where technology is grown, not manufactured, Flora Karachi paints her anguish with flowers and yearns to travel outside the mountain walls that guard her village. But in a society which values harmony and symmetry above all else, her dangerous curiosity and her indelicate scars, earned from a lifetime of inexplicable blackouts, make her an outcast with few prospects for adventure. Then the dreams come. Lucid and overpowering, they throw Flora into a fascinatingly advanced world where she lives the life of Jane Ingram, an American scientist fighting global climate change while trying to raise a child in a society where interpersonal interaction is becoming obsolete. Flora "s blackouts open a window into knowledge lost long ago and possibilities that are yet to come. To unravel these mysteries, she must travel to the enigmatic Institute, an ancient enclave hidden in the surrounding mountains, where scholars guard the secrets of Terrene.Living two lives, Flora will fight to become an Institute scholar in her own world while struggling to save the planet from humanity's neglect in Jane's. Yet all of Flora's courage combined with all of Jane's experience may not be enough to defeat the powerful forces protecting the secret which ties their two worlds together. To find salvation for both worlds, Jane and Flora must sacrifice their own dreams, conquer their fears, and discover hope for a new beginning.Hailed as a clever blend between science fiction and fantasy, Terrene explores the challenges of accelerating technology and global climate change through the stories of two remarkable women in two worlds that are not as distant as they seem.
Theory and Practice
Age of Information
Economic Mystification and the Limits of Realist Fiction
Six Months, Three Days, Five Others
A New Metric for Information Freshness
Targeting the Roots of Cancer, Seeds of Metastasis, and Sources of Therapy Resistance

We stand on the brink of one of the greatest ecological disasters of our time – the world is warming and seas are rising, and yet water is life; it brings change. Where one thing is wiped away, another rises. Drowned Worlds looks at the future we might have if the oceans rise – good or bad. Here you’ll find stories of action, adventure, romance and, yes, warning and apocalypse. Stories inspired by Ballard’s The Drowned World, Sterling’s Islands in the Net, and Ryman’s The Child Garden; stories that allow that things may get worse, but remembers that such times also bring out the best in us all. Multi-award winning editor Jonathan Strahan has put together sixteen unique tales of deluged worlds and those who fight to survive and strive to live. Featuring fiction by Paul McAuley, Ken Liu, Kim Stanley Robinson, Nina Allan, Kathleen Ann Goonan, Christopher Rowe, Nalo Hopkinson, Sean Williams, Jeffrey Ford, Lavie Tidhar, Rachel Swirsky, James Morrow, Charlie Jane Anders, Sam J. Miller and Catherynne M. Valente.
For nine-year-old Alejandria, home isn't just the apartment she shares with Mami and her abuela, Tita, but rather the whole neighborhood. Home is the bakery where Ms. Beatrice makes yummy picos; the sidewalk where Ms. Alicia sells flowers with her little dog, Duende; and the corner store with friendly Mr. Amir. But lately the city has been changing, and rent prices are going up. Many people in el barrio are leaving because they can no longer afford their homes, and "For Sale" signs are popping up everywhere. Then the worst thing happens: Mami receives a letter saying they'll have to move out too. Alejandria knows it isn’t fair, but she's not about to give up and leave. Join Alejandria as she brings her community together to fight and save their neighborhood! Para Alejandria de nueve años, el hogar no es sólo el apartamento que comparte con Mami y su abuela, Tita, sino más bien todo el barrio. El hogar es la panadería donde la Sra. Beatrice hace unos ricos picos; la vereda donde la Sra. Alicia vende flores con su perrito, Duende; y la pulpería con el amistoso Sr. Amir. Pero últimamente la ciudad ha estado cambiando, y los precios de alquiler están subiendo. Muchas personas en el barrio se están yendo porque ya no pueden costear sus hogares, y letreros anunciando “Se Vende” están apareciendo por todos lados. Entonces ocurre lo peor: Mami recibe una carta diciendo que ellas también tendrán que mudarse. Alejandria sabe que no es justo, pero no está dispuesta a darse por vencida e irse. ¡Únete a Alejandria mientras ella reúne a su comunidad para luchar y salvar su barrio!
The Memory Key author Liana Liu delivers a thrilling story of one girl struggling to claim her own identity while becoming an unwitting participant in the strange fate of a wealthy dynasty. The house on Arrow Island is full of mystery. Yet, when Mei arrives, she can’t help feeling relieved. She’s happy to spend the summer in an actual mansion tutoring a rich man’s daughter if it means a break from her normal life—her needy mother, her delinquent brother, their tiny apartment in the city. And Ella Morison seems like an easy charge, sweet and well behaved. What she doesn’t know is that something is very wrong in the Morison household. Though Mei tries to focus on her duties, she becomes increasingly distracted by the family’s problems and her own complicated feelings for Ella’s brother, Henry. But most disturbing of all are the unexplained noises she hears at night—the howling and thumping and cries. Mei is a sensible girl. She isn’t superstitious; she doesn’t believe in ghosts. Yet she can’t shake her fear that there is danger lurking in the shadows of this beautiful house, a darkness that could destroy the family inside and out...and Mei along with them.
A century after the Martian war of independence, a group of kids are sent to Earth as delegates from Mars, but when they return home, they are caught between the two worlds, unable to reconcile the beauty and culture of Mars with their experiences on Earth in this “thoughtful debut” (Kirkus Reviews) from Hugo Award–winning author Hao Jingfang. This “masterful narrative” (Booklist, starred review) is set on Earth in the wake of a second civil war...not between two factions in one nation, but two factions in one solar system: Mars and Earth. In an attempt to repair increasing tensions, the colonies of Mars send a group of young people to live on Earth to help reconcile humanity. But the group finds itself with no real home, no friends, and fractured allegiances as they struggle to find a sense of community and identity trapped between two worlds.
Hard Real-Time Computing Systems
My Chinese Dream
Real Time Systems
Vagabonds
From Red Guard to CEO
Real-Time Concepts for Embedded Systems

This valuable reference provides a comprehensive treatment of the technology known as RMA (rate-monotonic analysis) method. It also covers the tremendous recent advances in real-time operating systems and communications networks—emphasizing research results that have been adopted in state-of-the-art systems. Describing how and discussing why, this book uses insightful illustrative examples to convey technology transition in the last ten years. Coverage includes commonly used approaches to hard real-time scheduling, clock-driven scheduling, scheduling aperiodic and sporadic jobs in priority-driven systems, resources and resource access control, real-time communications, and operating systems. For systems architects, designers, chief scientists and technologists, and systems analysts.
You're educated and ambitious. Sure, the hours are long and corporate politics are a bane, but you focus on getting the job done, confident that you will be rewarded in the long run. Yet, somehow, your hard work isn't paying off, and you watch from the sidelines as your colleagues get promoted. Those who make it to management positions in this intensely competitive corporate environment seem to understand an unwritten code for marketing and aligning themselves politically. Furthermore, your strong work ethic and raw intelligence were sufficient when you started at the firm, but now they're expecting you to be a rainmaker who can "bring in clients" and "exert influence" on others. The top of the career ladder seems beyond your reach. Perhaps you've hit the bamboo ceiling. For the last decade, Asian Americans have been the fastest growing population in the United States. Asians comprise the largest college graduate population in America, and are often referred to as the "Model Minority" – but they continue to lag in the American workplace. If qualified Asians are entering the workforce with the right credentials, why aren't they making it to the corner offices and corporate boardrooms? Career coach Jane Hyun explains that Asians have not been able to break the "bamboo ceiling" because many are unable to effectively manage the cultural influences shaping their individual characteristics and workplace behavior—factors that are often at odds with the competencies needed to succeed at work. Traditional Asian cultural values can conflict with dominant corporate culture on many levels, resulting in a costly gap that individuals and companies need to bridge. The subtle, unconscious behavioral differences exhibited by Asian employees are often misinterpreted by their non-Asian counterparts, resulting in lost career opportunities and untapped talent. Never before has this dichotomy been so thoroughly explored, and in this insightful book, Hyun uses case studies, interviews and anecdotes to identify the issues and provide strategies for Asian Americans to succeed in corporate America. Managers will learn how to support the Asian members of their teams to realize their full potential and to maintain their competitive edge in today's multicultural workplace.
From award-winning author Ken Liu comes his much anticipated second volume of short stories. Ken Liu is one of the most lauded short story writers of our time. This collection includes a selection of his science fiction and fantasy stories from the last five years—sixteen of his best—plus a new novelette. In addition to these seventeen selections, The Hidden Girl and Other Stories also features an excerpt from book three in the Dandelion Dynasty series, The Veiled Throne.
Efficiently secure critical infrastructure systems
Alejandria Fights Back! / ¡La Lucha de Alejandria!
Real-Time Systems
Real Time UML Workshop for Embedded Systems
Industrial Cybersecurity
Real-time Systems