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Linux Kernel Development Linux System Programming Linux in a Nutshell Professional Linux Kernel Architecture Understanding the Linux Kernel Linux Kernel Development Linux Device Drivers Mastering Linux Kernel Development Love You Forever LTE - The UMTS Long Term Evolution Clean Code Search For Love Ideas for Development Linux Kernel Programming Linux in a Nutshell The New Psychology of Love Impact Evaluation in Practice, Second Edition The Awakening Beginning Linux? Programming Linux Kernel in a Nutshell Operating Systems Essential Linux Device Drivers User Stories Applied Catherine, Called Birdy UNIX Internals Provocations for Development The Nature and Nurture of Love Crafting Interpreters Ugly Love, Lies and Lemon Pies The Song of the Cell The Laws of Human Nature The Crystallization of the Arab State System, 1945-1954 Stranger in a Strange Land Troubled Blood Principles FYI Magic Bites Calling Me Home Triangle Of Love

A noted psychologist researches the make-up of love, citing three main ingredients--intimacy, passion, and commitment--that determine the success of a relationship and offers guidelines for enhancing personal relationships This book offers an up-to-date, in-depth, and broad-based exploration of the latest advances in UNIX-based operating systems. Focusing on the design and implementation of the operating system itself, this text compares and analyzes the alternatives offered by several important UNIX variants, and covers several advanced subjects, such as multi-processors and threads. Learn how to write high-quality kernel module code, solve common Linux kernel programming issues, and understand the fundamentals of Linux kernel internals Key Features Discover how to write kernel code using the Loadable Kernel Module framework Explore industry-grade techniques to perform efficient memory allocation and data synchronization within the kernel Understand the essentials of key internals topics such as kernel architecture, memory management, CPU scheduling, and kernel synchronization Book Description Linux Kernel Programming is a comprehensive introduction for those new to Linux kernel and module development. This easy-to-follow guide will have you up and running with writing kernel code in next-to-no time. This book uses the latest 5.4 Long-Term Support (LTS) Linux kernel, which will be maintained from November 2019 through to December 2025. By working with the 5.4 LTS kernel throughout the book, you can be confident that your knowledge will continue to be valid for years to come. You'll start the journey by learning how to build the kernel from the source. Next, you'll write your first kernel module using the powerful Loadable Kernel Module (LKM) framework. The following chapters will cover key kernel internals topics including Linux kernel architecture, memory management, and CPU scheduling. During the course of this book, you'll delve into the fairly complex topic of concurrency within the kernel, understand the issues it can cause, and learn how they can be addressed with various locking technologies (mutexes, spinlocks, atomic, and refcount operators). You'll also benefit from more advanced material on cache effects, a primer on lock-free techniques within the kernel, deadlock avoidance (with lockdep), and kernel lock debugging techniques. By the end of this kernel book, you'll have a detailed understanding of the fundamentals of writing Linux kernel module code for real-world projects and products. What you will learn Write high-quality modular kernel code (LKM framework) for 5.x kernels Configure and build a kernel from source Explore the Linux kernel architecture Get to grips with key internals regarding memory management within the kernel Understand and work with various dynamic kernel memory alloc/dealloc APIs Discover key internals aspects regarding CPU scheduling within the kernel Gain an understanding of kernel concurrency issues Find out how to work with key kernel synchronization primitives Who this book is for This book is for Linux programmers beginning to find their way with Linux kernel development. If you're a Linux kernel and driver developer looking to overcome frequent and common kernel development issues, or understand kernel internals, you'll find plenty of useful information. You'll need a solid foundation of Linux CLI and C programming before you can jump in. An authoritative, practical guide that helps programmers better understand the Linux kernel and to write and develop kernel code. #1 New York Times Bestseller "Significant...The

book is both instructive and surprisingly moving." —The New York Times Ray Dalio, one of the world's most successful investors and entrepreneurs, shares the unconventional principles that he's developed, refined, and used over the past forty years to create unique results in both life and business—and which any person or organization can adopt to help achieve their goals. In 1975, Ray Dalio founded an investment firm, Bridgewater Associates, out of his two-bedroom apartment in New York City. Forty years later, Bridgewater has made more money for its clients than any other hedge fund in history and grown into the fifth most important private company in the United States, according to Fortune magazine. Dalio himself has been named to Time magazine's list of the 100 most influential people in the world. Along the way, Dalio discovered a set of unique principles that have led to Bridgewater's exceptionally effective culture, which he describes as "an idea meritocracy that strives to achieve meaningful work and meaningful relationships through radical transparency." It is these principles, and not anything special about Dalio—who grew up an ordinary kid in a middle-class Long Island neighborhood—that he believes are the reason behind his success. In Principles, Dalio shares what he's learned over the course of his remarkable career. He argues that life, management, economics, and investing can all be systemized into rules and understood like machines. The book's hundreds of practical lessons, which are built around his cornerstones of "radical truth" and "radical transparency," include Dalio laying out the most effective ways for individuals and organizations to make decisions, approach challenges, and build strong teams. He also describes the innovative tools the firm uses to bring an idea meritocracy to life, such as creating "baseball cards" for all employees that distill their strengths and weaknesses, and employing computerized decision-making systems to make believability-weighted decisions. While the book brims with novel ideas for organizations and institutions, Principles also offers a clear, straightforward approach to decision-making that Dalio believes anyone can apply, no matter what they're seeking to achieve. Here, from a man who has been called both "the Steve Jobs of investing" and "the philosopher king of the financial universe" (CIO magazine), is a rare opportunity to gain proven advice unlike anything you'll find in the conventional business press. Our world seems entangled in systems increasingly dominated by power, greed, ignorance, self-deception and denial, with spiralling inequity and injustice. Against a backdrop of climate change, failing ecosystems, poverty, crushing debt and corporate exploitation, the future of our world looks dire and the solutions almost too monumental to consider. Yet all is not lost. Robert Chambers, one of the "glass is half full" optimists of international development, suggests that the problems can be solved and everyone has the power at a personal level to take action, develop solutions and remake our world as it can and should be. Chambers peels apart and analyses aspects of development that have been neglected or misunderstood. In each chapter, he presents an earlier writing which he then reviews and reflects upon in a contemporary light before harvesting a wealth of powerful conclusions and practical implications for the future. The book draws on experiences from Africa, Asia and elsewhere, covering topics and concepts as wide and varied as irreversibility, continuity and commitment; administrative capacity as a scarce resource; procedures and principles; participation in the past, present and future; scaling up; behaviour and attitudes; responsible wellbeing; and concepts for development in the 21st century. Even bad code can function. But if code isn't clean, it can bring a development organization to its knees. Every year, countless hours and significant resources are lost because of poorly written code. But it doesn't have to be that way. Noted software expert Robert C. Martin presents a revolutionary paradigm with Clean Code: A Handbook of Agile Software Craftsmanship. Martin has teamed up with his colleagues from Object Mentor to distill their best agile practice of cleaning code "on the fly" into a book that will instill within you the values of a software craftsman and make you a better programmer—but only if you work at it. What kind of work will you be doing? You'll be reading code—lots of code. And you will be challenged to think about what's right about that code, and what's wrong with it. More importantly, you will be challenged to reassess your professional values and your commitment to your craft. Clean Code is divided into three

parts. The first describes the principles, patterns, and practices of writing clean code. The second part consists of several case studies of increasing complexity. Each case study is an exercise in cleaning up code—of transforming a code base that has some problems into one that is sound and efficient. The third part is the payoff: a single chapter containing a list of heuristics and “smells” gathered while creating the case studies. The result is a knowledge base that describes the way we think when we write, read, and clean code. Readers will come away from this book understanding How to tell the difference between good and bad code How to write good code and how to transform bad code into good code How to create good names, good functions, good objects, and good classes How to format code for maximum readability How to implement complete error handling without obscuring code logic How to unit test and practice test-driven development This book is a must for any developer, software engineer, project manager, team lead, or systems analyst with an interest in producing better code. This volume contains a comprehensive examination of the crucial first ten years of the Arab League and of the continuing dilemma it faces in juggling opposing local and regional interests. Provides information on writing a driver in Linux, covering such topics as character devices, network interfaces, driver debugging, concurrency, and interrupts. A young woman holds her newborn son And looks at him lovingly. Softly she sings to him: "I'll love you forever I'll like you for always As long as I'm living My baby you'll be." So begins the story that has touched the hearts of millions worldwide. Since publication in 1986, *Love You Forever* has sold more than 15 million copies in paperback and the regular hardcover edition (as well as hundreds of thousands of copies in Spanish and French). Firefly Books is proud to offer this sentimental favorite in a variety of editions and sizes: We offer a trade paper and laminated hardcover edition in a 8" x 8" size. In gift editions we carry: a slipcased edition (8 1/2" x 8 1/4"), with a laminated box and a cloth binding on the book and a 10" x 10" laminated hardcover with jacket. And a Big Book Edition, 16" x 16" with a trade paper binding. The second edition of the *Impact Evaluation in Practice* handbook is a comprehensive and accessible introduction to impact evaluation for policy makers and development practitioners. First published in 2011, it has been used widely across the development and academic communities. The book incorporates real-world examples to present practical guidelines for designing and implementing impact evaluations. Readers will gain an understanding of impact evaluations and the best ways to use them to design evidence-based policies and programs. The updated version covers the newest techniques for evaluating programs and includes state-of-the-art implementation advice, as well as an expanded set of examples and case studies that draw on recent development challenges. It also includes new material on research ethics and partnerships to conduct impact evaluation. The handbook is divided into four sections: Part One discusses what to evaluate and why; Part Two presents the main impact evaluation methods; Part Three addresses how to manage impact evaluations; Part Four reviews impact evaluation sampling and data collection. Case studies illustrate different applications of impact evaluations. The book links to complementary instructional material available online, including an applied case as well as questions and answers. The updated second edition will be a valuable resource for the international development community, universities, and policy makers looking to build better evidence around what works in development. *Provocations for Development* is an entertaining and unsettling collection of writings that questions concepts, conventions and practices in development. It is made up of short and accessible writings by Robert Chambers, many from the past ten years and some from earlier. "Where this book is exceptional is that the reader will not just learn how LTE works but why it works" Adrian Scrase, ETSI Vice-President, International Partnership Projects Following on the success of the first edition, this book is fully updated, covering the latest additions to LTE and the key features of LTE-Advanced. This book builds on the success of its predecessor, offering the same comprehensive system-level understanding built on explanations of the underlying theory, now expanded to include complete coverage of Release 9 and the developing specifications for LTE-Advanced. The book is a collaborative effort of more than 40 key experts representing over 20 companies actively participating in the development of LTE, as well as academia. The book highlights practical implications, illustrates the expected performance, and draws comparisons with the well-known WCDMA/HSPA standards. The authors not only pay special attention to the physical layer, giving an insight into the fundamental concepts of OFDMA-FDMA and MIMO, but also cover the higher protocol layers and system architecture to enable the reader to gain an overall understanding of the system. Key New

Features: Comprehensively updated with the latest changes of the LTE Release 8 specifications, including improved coverage of Radio Resource Management RF aspects and performance requirements Provides detailed coverage of the new LTE Release 9 features, including: eMBMS, dual-layer beamforming, user equipment positioning, home eNodeBs / femtocells and pico cells and self-optimizing networks Evaluates the LTE system performance Introduces LTE-Advanced, explaining its context and motivation, as well as the key new features including: carrier aggregation, relaying, high-order MIMO, and Cooperative Multi-Point transmission (CoMP). Includes an accompanying website containing a complete list of acronyms related to LTE and LTE-Advanced, with a brief description of each (http://www.wiley.com/go/sesia_theumts) This book is an invaluable reference for all research and development engineers involved in implementation of LTE or LTE-Advanced, as well as graduate and PhD students in wireless communications. Network operators, service providers and R&D managers will also find this book insightful. Contains an introduction to the operating system with detailed documentation on commands, utilities, programs, system configuration, and networking. A moving love story inspired by a true story and perfect for fans of *The Help* In a time of hate, would you stand up for love? *Shalerville, Kentucky, 1939*. A world where black maids and handymen are trusted to raise white children and tend to white houses, but from which they are banished after dark. Sixteen-year-old Isabelle McAllister, born into wealth and privilege, finds her ordered life turned upside down when she becomes attracted to Robert, the ambitious black son of her family's housekeeper. Before long Isabelle and Robert are crossing extraordinary, dangerous boundaries and falling deeply in love. Many years later, eighty-nine-year-old Isabelle will travel from her home in Arlington, Texas, to Ohio for a funeral. With Isabelle is her hairstylist and friend, Dorrie Curtis – a black single mother with her own problems. Along the way, Isabelle will finally reveal to Dorrie the truth of her painful past: a tale of forbidden love, the consequences of which will resound for decades . . . 'If Julie Kibler's novel *Calling Me Home* were a young woman, her grandmother would be *To Kill a Mockingbird*, her sister would be *The Help* and her cousin would be *The Notebook*. But even with such iconic relatives, *Calling Me Home* stands on her own' Wiley Cash, *New York Times* bestselling author of *A Land More Kind Than Home* 'Julie Kibler's writing is so wise and assured. I laughed out loud in places and had tears in my eyes as I turned the last page' Diane Chamberlain 'If you liked *The Help* by Kathryn Stockett, you'll absolutely love *Calling Me Home*' *Red* magazine The notion that maternal care and love will determine a child's emotional well-being and future personality has become ubiquitous. In countless stories and movies we find that the problems of the protagonists—anything from the fear of romantic commitment to serial killing—stem from their troubled relationships with their mothers during childhood. How did we come to hold these views about the determinant power of mother love over an individual's emotional development? And what does this vision of mother love entail for children and mothers? In *The Nature and Nurture of Love*, Marga Vicedo examines scientific views about children's emotional needs and mother love from World War II until the 1970s, paying particular attention to John Bowlby's ethological theory of attachment behavior. Vicedo tracks the development of Bowlby's work as well as the interdisciplinary research that he used to support his theory, including Konrad Lorenz's studies of imprinting in geese, Harry Harlow's experiments with monkeys, and Mary Ainsworth's observations of children and mothers in Uganda and the United States. Vicedo's historical analysis reveals that important psychoanalysts and animal researchers opposed the project of turning emotions into biological instincts. Despite those substantial criticisms, she argues that attachment theory was paramount in turning mother love into a biological need. This shift introduced a new justification for the prescriptive role of biology in human affairs and had profound—and negative—consequences for mothers and for the valuation of mother love. Presents an overview of kernel configuration and building for version 2.6 of the Linux kernel. Thoroughly reviewed and eagerly anticipated by the agile community, *User Stories Applied* offers a requirements process that saves time, eliminates rework, and leads directly to better software. The best way to build software that meets users' needs is to begin with "user stories": simple, clear, brief descriptions of functionality that will be valuable to real users. In *User Stories Applied*, Mike Cohn provides you with a front-to-back blueprint for writing these user stories and weaving them into your development lifecycle. You'll learn what makes a great user story, and what makes a bad one. You'll discover practical ways to gather user stories, even when

you can't speak with your users. Then, once you've compiled your user stories, Cohn shows how to organize them, prioritize them, and use them for planning, management, and testing. User role modeling: understanding what users have in common, and where they differ Gathering stories: user interviewing, questionnaires, observation, and workshops Working with managers, trainers, salespeople and other "proxies" Writing user stories for acceptance testing Using stories to prioritize, set schedules, and estimate release costs Includes end-of-chapter practice questions and exercises User Stories Applied will be invaluable to every software developer, tester, analyst, and manager working with any agile method: XP, Scrum... or even your own home-grown approach. The book starts with the basics, explaining how to compile and run your first program. First, each concept is explained to give you a solid understanding of the material. Practical examples are then presented, so you see how to apply the knowledge in real applications. This is a much-needed update on the latest theory and research on love supplied by leading scientific experts. It is suitable for psychologists, neuroscientists, anthropologists, sociologists, and anyone with an interest in love and what has been learned from scientific studies of it. Reflecting the rapid and continuous development of the Linux operating system, the reference has been published in 1997, 1999, and again now. Not a tutorial for new users, but a concise handbook of commands (most, but not, for example `cdp!`), network administration, boot methods, package managers, shells, editors, scripting, version control, and window managers. O'Reilly's Nutshell series is highly respected in the community by those who recognize what it is and is not. Annotation copyrighted by Book News, Inc., Portland, OR "Probably the most wide ranging and complete Linux device driver book I've read." -- Alan Cox, Linux Guru and Key Kernel Developer "Very comprehensive and detailed, covering almost every single Linux device driver type." -- Theodore Ts'o, First Linux Kernel Developer in North America and Chief Platform Strategist of the Linux Foundation The Most Practical Guide to Writing Linux Device Drivers Linux now offers an exceptionally robust environment for driver development: with today's kernels, what once required years of development time can be accomplished in days. In this practical, example-driven book, one of the world's most experienced Linux driver developers systematically demonstrates how to develop reliable Linux drivers for virtually any device. Essential Linux Device Drivers is for any programmer with a working knowledge of operating systems and C, including programmers who have never written drivers before. Sreekrishnan Venkateswaran focuses on the essentials, bringing together all the concepts and techniques you need, while avoiding topics that only matter in highly specialized situations. Venkateswaran begins by reviewing the Linux 2.6 kernel capabilities that are most relevant to driver developers. He introduces simple device classes; then turns to serial buses such as I2C and SPI; external buses such as PCMCIA, PCI, and USB; video, audio, block, network, and wireless device drivers; user-space drivers; and drivers for embedded Linux—one of today's fastest growing areas of Linux development. For each, Venkateswaran explains the technology, inspects relevant kernel source files, and walks through developing a complete example. • Addresses drivers discussed in no other book, including drivers for I2C, video, sound, PCMCIA, and different types of flash memory • Demystifies essential kernel services and facilities, including kernel threads and helper interfaces • Teaches polling, asynchronous notification, and I/O control • Introduces the Inter-Integrated Circuit Protocol for embedded Linux drivers • Covers multimedia device drivers using the Linux-Video subsystem and Linux-Audio framework • Shows how Linux implements support for wireless technologies such as Bluetooth, Infrared, WiFi, and cellular networking • Describes the entire driver development lifecycle, through debugging and maintenance • Includes reference appendixes covering Linux assembly, BIOS calls, and Seq files She wanted to swim far out, where no woman had swum before. Condemned as "sordid" and "immoral" on its publication in 1899, this story of a woman trapped in her marriage effectively ended Chopin's career but was revived as a proto-feminist classic in the 1970s. What Newsweek calls Chopin's "prophetic psychology" insures its timeliness today. The Art of The Novella Series Too short to be a novel, too long to be a short story, the novella is generally unrecognized by academics and publishers. Nonetheless, it is a form beloved and practiced by literature's greatest writers. In the Art Of The Novella series, Melville House celebrates this renegade art form and its practitioners with titles that are, in many instances, presented in book form for the first time. Find an introduction to the architecture, concepts and algorithms of the Linux kernel in Professional Linux Kernel Architecture, a guide to the kernel sources and large number of

connections among subsystems. Find an introduction to the relevant structures and functions exported by the kernel to userland, understand the theoretical and conceptual aspects of the Linux kernel and Unix derivatives, and gain a deeper understanding of the kernel. Learn how to reduce the vast amount of information contained in the kernel sources and obtain the skills necessary to understand the kernel sources. "For learners, managers, mentors, and feedback givers." #1 New York Times bestselling author Ilona Andrews invites you to experience the first novel in the "intriguing world" (Locus) of Kate Daniels with this special edition of Magic Bites... Kate Daniels is a down-on-her-luck mercenary who makes her living cleaning up magical problems. But when Kate's guardian is murdered, her quest for justice draws her into a power struggle between two strong factions within Atlanta's magic circles. Pressured by both sides to find the killer, Kate realizes she's way out of her league—but she wouldn't want it any other way... This special edition includes in-depth information about the world of Kate Daniels, with descriptions of its characters and factions. Explore Kate's Atlanta like never before with answers to FAQ and a quiz to find your place there. And don't miss the prequel story "A Questionable Client," as well as scenes of events in Magic Bites from Curran's point of view. Over the past two decades, there has been a huge amount of innovation in both the principles and practice of operating systems Over the same period, the core ideas in a modern operating system - protection, concurrency, virtualization, resource allocation, and reliable storage - have become widely applied throughout computer science. Whether you get a job at Facebook, Google, Microsoft, or any other leading-edge technology company, it is impossible to build resilient, secure, and flexible computer systems without the ability to apply operating systems concepts in a variety of settings. This book examines the both the principles and practice of modern operating systems, taking important, high-level concepts all the way down to the level of working code. Because operating systems concepts are among the most difficult in computer science, this top to bottom approach is the only way to really understand and master this important material. When she arrives at her long lost relative's French estate, Serenity Smith is greeted with cold politeness by the Comtesse de Kergallen and her darkly handsome grandson, Christophe. Refusing to believe their scandalous stories about her late parents, Serenity sets out to prove they were false. But getting the enigmatic and demanding Christophe to change his mind about her will prove an equally worthy challenge. UNIX, UNIX LINUX & UNIX TCL/TK. Write software that makes the most effective use of the Linux system, including the kernel and core system libraries. The majority of both Unix and Linux code is still written at the system level, and this book helps you focus on everything above the kernel, where applications such as Apache, bash, cp, vim, Emacs, gcc, gdb, glibc, ls, mv, and X exist. Written primarily for engineers looking to program at the low level, this updated edition of Linux System Programming gives you an understanding of core internals that makes for better code, no matter where it appears in the stack. -- Provided by publisher. Despite using them every day, most software engineers know little about how programming languages are designed and implemented. For many, their only experience with that corner of computer science was a terrifying "compilers" class that they suffered through in undergrad and tried to blot from their memory as soon as they had scribbled their last NFA to DFA conversion on the final exam. That fearsome reputation belies a field that is rich with useful techniques and not so difficult as some of its practitioners might have you believe. A better understanding of how programming languages are built will make you a stronger software engineer and teach you concepts and data structures you'll use the rest of your coding days. You might even have fun. This book teaches you everything you need to know to implement a full-featured, efficient scripting language. You'll learn both high-level concepts around parsing and semantics and gritty details like bytecode representation and garbage collection. Your brain will light up with new ideas, and your hands will get dirty and calloused. Starting from `main()`, you will build a language that features rich syntax, dynamic typing, garbage collection, lexical scope, first-class functions, closures, classes, and inheritance. All packed into a few thousand lines of clean, fast code that you thoroughly understand because you wrote each one yourself. Robert Hoge was born with a tumor in the middle of his face and short, twisted legs. This poignant memoir about overcoming bullying and thriving with disabilities shows that what makes us "ugly" also makes us who we are. From PW's starred review: "Unique and universal." From the #1 New York Times-bestselling author of The 48 Laws of Power comes the definitive new book on decoding the behavior of the people around you Robert Greene is a master guide for millions of

readers, distilling ancient wisdom and philosophy into essential texts for seekers of power, understanding and mastery. Now he turns to the most important subject of all - understanding people's drives and motivations, even when they are unconscious of them themselves. We are social animals. Our very lives depend on our relationships with people. Knowing why people do what they do is the most important tool we can possess, without which our other talents can only take us so far. Drawing from the ideas and examples of Pericles, Queen Elizabeth I, Martin Luther King Jr, and many others, Greene teaches us how to detach ourselves from our own emotions and master self-control, how to develop the empathy that leads to insight, how to look behind people's masks, and how to resist conformity to develop your singular sense of purpose. Whether at work, in relationships, or in shaping the world around you, *The Laws of Human Nature* offers brilliant tactics for success, self-improvement, and self-defense. In the epic fifth installment in this "compulsively readable" (People) series, Galbraith's "irresistible hero and heroine" (USA Today) take on the decades-old cold case of a missing doctor, one which may be their grisliest yet. Private Detective Cormoran Strike is visiting his family in Cornwall when he is approached by a woman asking for help finding her mother, Margot Bamborough—who went missing in mysterious circumstances in 1974. Strike has never tackled a cold case before, let alone one forty years old. But despite the slim chance of success, he is intrigued and takes it on; adding to the long list of cases that he and his partner in the agency, Robin Ellacott, are currently working on. And Robin herself is also juggling a messy divorce and unwanted male attention, as well as battling her own feelings about Strike. As Strike and Robin investigate Margot's disappearance, they come up against a fiendishly complex case with leads that include tarot cards, a psychopathic serial killer and witnesses who cannot all be trusted. And they learn that even cases decades old can prove to be deadly . . . 'As big a topic as life itself; I'm not sure a writer could cover it better' The Times From the prize-winning author of *The Emperor of All Maladies*, *The Song of the Cell* tells the vivid, thrilling and suspenseful story of the fundamental unit of life. In the late 1600s, a distinguished English polymath, Robert Hooke, and an eccentric Dutch cloth-merchant, Antonie van Leeuwenhoek, look down their hand-made microscopes. What they see introduces a radical concept that alters both biology and medicine forever. It is the fact that complex living organisms are assemblages of tiny, self-contained, self-regulating units. Our organs, our physiology, our selves, are built from these compartments. Hooke christens them 'cells'. The discovery of cells announced the birth of a new kind of medicine. A hip fracture, a cardiac arrest, Alzheimer's, AIDS, lung cancer - all could be re-conceived as the results of cells, or a cellular ecosystem, functioning abnormally. And all could be treated by therapeutic manipulations of cells. This revolution in cell biology is still in progress: it represents one of the most significant advances in science and medicine. Both panoramic and intimate, this is Siddhartha Mukherjee's most spectacular book yet. 'Brilliant ... medical magic' Daily Telegraph **A MAIL ON SUNDAY AND GUARDIAN BOOK OF THE YEAR** Explore Implementation of core kernel subsystems About This Book Master the design, components, and structures of core kernel subsystems Explore kernel programming interfaces and related algorithms under the hood Completely updated material for the 4.12.10 kernel Who This Book Is For If you are a kernel programmer with a knowledge of kernel APIs and are looking to build a comprehensive understanding, and eager to explore the implementation, of kernel subsystems, this book is for you. It sets out to unravel the underlying details of kernel APIs and data structures, piercing through the complex kernel layers and gives you the edge you need to take your skills to the next level. What You Will Learn Comprehend processes and fles—the core abstraction mechanisms of the Linux kernel that promote effective simplification and dynamism Decipher process scheduling and understand effective capacity utilization under general and real-time dispositions Simplify and learn more about process communication techniques through signals and IPC mechanisms Capture the rudiments of memory by grasping the key concepts and principles of physical and virtual memory management Take a sharp and precise look at all the key aspects of interrupt management and the clock subsystem Understand concurrent execution on SMP platforms through kernel synchronization and locking techniques In Detail Mastering Linux Kernel Development looks at the Linux kernel, its internal arrangement and design, and various core subsystems, helping you to gain significant understanding of this open source marvel. You will look at how the Linux kernel, which possesses a kind of collective intelligence thanks to its scores of contributors, remains so elegant owing to its great design. This book also

looks at all the key kernel code, core data structures, functions, and macros, giving you a comprehensive foundation of the implementation details of the kernel's core services and mechanisms. You will also look at the Linux kernel as well-designed software, which gives us insights into software design in general that are easily scalable yet fundamentally strong and safe. By the end of this book, you will have considerable understanding of and appreciation for the Linux kernel. Style and approach Each chapter begins with the basic conceptual know-how for a subsystem and extends into the details of its implementation. We use appropriate code excerpts of critical routines and data structures for subsystems. To thoroughly understand what makes Linux tick and why it's so efficient, you need to delve deep into the heart of the operating system—into the Linux kernel itself. The kernel is Linux—in the case of the Linux operating system, it's the only bit of software to which the term "Linux" applies. The kernel handles all the requests or completed I/O operations and determines which programs will share its processing time, and in what order. Responsible for the sophisticated memory management of the whole system, the Linux kernel is the force behind the legendary Linux efficiency. The new edition of *Understanding the Linux Kernel* takes you on a guided tour through the most significant data structures, many algorithms, and programming tricks used in the kernel. Probing beyond the superficial features, the authors offer valuable insights to people who want to know how things really work inside their machine. Relevant segments of code are dissected and discussed line by line. The book covers more than just the functioning of the code, it explains the theoretical underpinnings for why Linux does things the way it does. The new edition of the book has been updated to cover version 2.4 of the kernel, which is quite different from version 2.2: the virtual memory system is entirely new, support for multiprocessor systems is improved, and whole new classes of hardware devices have been added. The authors explore each new feature in detail. Other topics in the book include: Memory management including file buffering, process swapping, and Direct memory Access (DMA) The Virtual Filesystem and the Second Extended Filesystem Process creation and scheduling Signals, interrupts, and the essential interfaces to device drivers Timing Synchronization in the kernel Interprocess Communication (IPC) Program execution *Understanding the Linux Kernel, Second Edition* will acquaint you with all the inner workings of Linux, but is more than just an academic exercise. You'll learn what conditions bring out Linux's best performance, and you'll see how it meets the challenge of providing good system response during process scheduling, file access, and memory management in a wide variety of environments. If knowledge is power, then this book will help you make the most of your Linux system. The alternative - the school talking to her nervous wreck of a mum - is not an option. Lottie's uncertainty about Bake Club melts away as she rekindles her love of baking and gets caught up with Mac, the school rebel and another unwilling Bake Club member. Both Lottie and Mac have secrets to keep and would much rather not get involved, but as Bake Club progresses towards an end-of-year competition, the tension rises. Can Lottie keep up the facade of her perfect life without the others finding out what's really going on at home? And can her bubbling romance with Mac survive the pressure? Shaggy Beard wishes to take me to wife! What a monstrous joke. That dog assassin whose breath smells like the mouth of Hell, who makes wind like others make music, who is so ugly and old! Catherine's in trouble. Caught between a mother who is determined to turn her into the perfect medieval lady and a father who wants her to marry her off to much older and utterly repulsive suitor. Luckily, Catherine has a plan. She has experience outwitting suitors and is ready to take matters into her own hands. A fun and vibrant coming-of-age novel about a 14-year-old girl's fight for freedom and right to self-determination. The original uncut edition of *STRANGER IN A STRANGE LAND* by Hugo Award winner Robert A Heinlein - one of the most beloved, celebrated science-fiction novels of all time. Epic, ambitious and entertaining, *STRANGER IN A STRANGE LAND* caused controversy and uproar when it was first published and is still topical and challenging today. Twenty-five years ago, the first manned mission to Mars was lost, and all hands presumed dead. But someone survived... Born on the doomed spaceship and raised by the Martians who saved his life, Valentine Michael Smith has never seen a human being until the day a second expedition to Mars discovers him. Upon his return to Earth, a young nurse named Jill Boardman sneaks into Smith's hospital room and shares a glass of water with him, a simple act for her but a sacred ritual on Mars. Now, connected by an incredible bond, Smith, Jill and a writer named Jubal must fight to protect a right we all take for granted: the right to love.

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