Tomtom One 3rd Edition Instructions

In this book, the fundamental differences of opinion within strategic management are not ignored or smoothed over. The authors carefully guide the students through the many, often conflicting, perspectives in the field of strategy, in order to help them become true stategic thinkers.

Supply Chain Management (SCM) has been widely researched in numerous application domains during the last decade. Despite the popularity of SCM research and applications, considerable confusion remains as to its meaning. There are several attempts made by researchers and practitioners to appropriately define SCM. Amidst fierce competition in all industries, SCM has gradually been embraced as a proven managerial approach to achieving sustainable profits and growth. This book "Supply Chain Management - Applications and Simulations" is comprised of twelve chapters and has been divided into four sections. Section I contains the introductory chapter that represents theory and evolution of Supply Chain Management. This chapter highlights chronological prospective of SCM in terms of time frame in different areas of manufacturing and service industries. Section II comprised five chapters those are related to strategic and tactical issues in SCM. Section III encompasses four chapters that are relevant to project and technology issues in Supply Chain. Section IV consists of two chapters which are pertinent to risk managements in supply chain.

Sharpen your mind to beat the smartest brains in Britain with the original official GCHQ puzzle book Would GCHQ recruit you? Pit your wits against the people who cracked Enigma in the official puzzle book from Britain's top secret intelligence and security organisation Over the years, their codebreakers have helped keep our country safe, from the Bletchley Park breakthroughs of WWII to the modern-day threat of cyber attack. So it comes as no surprise that, even in their time off, the staff at GCHQ love a good puzzle. Whether they're recruiting new staff or challenging each other to the toughest Christmas quizzes and treasure hunts imaginable, puzzles are at the heart of what GCHQ does. Now they're opening up their archives of decades' worth of codes, puzzles and challenges for everyone to try. In this book you will find: - Tips on how to get into the mindset of a codebreaker - Puzzles ranging in difficulty from easy to brain-bending - A competition section where we search for Britain's smartest puzzler With hundreds of stimulating puzzles, The GCHQ Puzzle Book is the perfect companion and will keep you occupied as you attempt to beat the smartest brains in Britain. GOOD LUCK!

'Fiendish . . . as frustrating, divisive and annoying as it is deeply fulfilling' Guardian 'Ideal for the crossword enthusiast' Daily Telegraph Looking for more ways to test yourself? The GCHQ Puzzle Book 2, a new collection of head-scratching, mind-boggling and brain-bending puzzles is out now!

Get your slice of Raspberry Pi With the invention of the unique credit card-sized single-board computer comes a new

wave of hardware geeks, hackers, and hobbyists who are excited about the possibilities with the Raspberry Pi—and this is the perfect guide to get you started. With this down-to-earth book, you'll quickly discover why the Raspberry Pi is in high demand! There's a reason the Raspberry Pi sold a million units in its first year, and you're about to find out why! In Raspberry Pi For Dummies, 3rd Edition veteran tech authors Sean McManus and Mike Cook make it easier than ever to get you up and running on your Raspberry Pi, from setting it up, downloading the operating system, and using the desktop environment to editing photos, playing music and videos, and programming with Scratch—and everything in between. Covers connecting the Pi to other devices such as a keyboard, mouse, monitor, and more Teaches you basic Linux System Admin Explores creating simple hardware projects Shows you how to create web pages Raspberry Pi For Dummies, 3rd Edition makes computing as easy as pie!

This Java-built "Visualization Toolkit (VTK)" will enable readers to represent any set of data--medical, scientific, or financial--in 3D. Users will learn to build 3D Java applets with the VTK software on the CD-ROM. The book covers Web applications like VRML, Java, and Java3D.

A conceptual introduction and practical primer to the application of imagery and remote sensing data in GIS (geographic information systems).

In a number of European countries (e.g., Spain, Italy, France, Portugal, Slovenia, Croatia, Poland), a portion of the pig sector is aimed at the production of traditional and certified products (e.g., PDO—Protected Designation of Origin, PGI—Protected Geographical Indication). Dry-cured ham is probably the most famous traditional pork product; however, typical pork products are produced in (and exported to) many countries worldwide. The meat used for producing these high-quality delicacies needs to be suitable for seasoning and dry-curing, and these characteristics are the result of complex interactions between the animal (breed, genotype, rearing condition, feeding regime, age and weight at slaughter, etc.) and the environment, without disregarding the importance of ethical attributes such as animal welfare and the environmental impact. This Special Issue focuses on all the innovative production strategies for pigs intended for high-quality, typical productions (in term of higher sustainability of the whole production chain, improvement of animal welfare, innovative feeding and farming techniques, reduction in environmental impact, improvement in meat and fat quality, etc.), with emphasis on PDOs, PGIs, and other recognized production schemes, and it is aimed at providing new insights for a wide range of stakeholders from different countries.

Become well-versed with forensics for the Android, iOS, and Windows 10 mobile platforms by learning essential techniques and exploring real-life scenarios Key Features Apply advanced forensic techniques to recover deleted data from mobile devices Retrieve and analyze data stored not only on mobile devices but also on the cloud and other

connected mediums Use the power of mobile forensics on popular mobile platforms by exploring different tips, tricks, and techniques Book Description Mobile phone forensics is the science of retrieving data from a mobile phone under forensically sound conditions. This updated fourth edition of Practical Mobile Forensics delves into the concepts of mobile forensics and its importance in today's world. The book focuses on teaching you the latest forensic techniques to investigate mobile devices across various mobile platforms. You will learn forensic techniques for multiple OS versions, including iOS 11 to iOS 13, Android 8 to Android 10, and Windows 10. The book then takes you through the latest open source and commercial mobile forensic tools, enabling you to analyze and retrieve data effectively. From inspecting the device and retrieving data from the cloud, through to successfully documenting reports of your investigations, you'll explore new techniques while building on your practical knowledge. Toward the end, you will understand the reverse engineering of applications and ways to identify malware. Finally, the book guides you through parsing popular third-party applications, including Facebook and WhatsApp. By the end of this book, you will be proficient in various mobile forensic techniques to analyze and extract data from mobile devices with the help of open source solutions. What you will learn Discover new data extraction, data recovery, and reverse engineering techniques in mobile forensics Understand iOS, Windows, and Android security mechanisms Identify sensitive files on every mobile platform Extract data from iOS, Android, and Windows platforms Understand malware analysis, reverse engineering, and data analysis of mobile devices Explore various data recovery techniques on all three mobile platforms Who this book is for This book is for forensic examiners with basic experience in mobile forensics or open source solutions for mobile forensics. Computer security professionals, researchers or anyone looking to gain a deeper understanding of mobile internals will also find this book useful. Some understanding of digital forensic practices will be helpful to grasp the concepts covered in the book more effectively.

This open access book focuses on Switzerland-based medium-sized companies with a longstanding export tradition and a proven dominance in global niche markets. Based upon in-depth documentation and analysis of 36 Swiss companies over their entire history, an expert team of authors presents several parallels in the pathways and success factors which allowed these firms to become dominant and operate from a high-cost location such as Switzerland. The book enhances these insights by providing detailed company profiles documenting the company history, development, and how their relevant global niche positions were reached. Readers will benefit from these profiles as they compile a diverse selection of industries, mainly active within the B2B sector, with mostly mature companies (60 years to older than 100 years since founding) and different types of ownership structures including family firms. 'Masterpieces of Swiss Entrepreneurship' brings unique learning opportunities to owners and leaders of SMEs in Switzerland and elsewhere. Findings are based

on detailed bottom-up research of 36 companies -- without any preconceived notions. The book is both conceptual and practical. It fosters understanding for different choices in development pathways and management practices. Matti Alahuhta, Chairman DevCo Partners, ex-CEO Kone, Board member of several global listed companies, Helsinki, Finland Start-up entrepreneurs need proven models from industry which demonstrate the various paths to success. "Masterpieces of Swiss Entrepreneurship" provides deep insights highlighting these models and the important trade-offs entrepreneurial teams must consider when choosing the path of high growth or of maximum control, as they are often mutually exclusive. Gina Domanig, Managing Partner, Emerald Technology Ventures, Zurich

The full French text of Sartre's novel is accompanied by French-English vocabulary. Notes and a detailed introduction in English put the work in its social and historical context.

Practical Mobile ForensicsPackt Publishing Ltd

Let Hadoop For Dummies help harness the power of your data and rein in the information overload Big data has become big business, and companies and organizations of all sizes are struggling to find ways to retrieve valuable information from their massive data sets with becoming overwhelmed. Enter Hadoop and this easy-to-understand For Dummies guide. Hadoop For Dummies helps readers understand the value of big data, make a business case for using Hadoop, navigate the Hadoop ecosystem, and build and manage Hadoop applications and clusters. Explains the origins of Hadoop, its economic benefits, and its functionality and practical applications Helps you find your way around the Hadoop ecosystem, program MapReduce, utilize design patterns, and get your Hadoop cluster up and running quickly and easily Details how to use Hadoop applications for data mining, web analytics and personalization, large-scale text processing, data science, and problem-solving Shows you how to improve the value of your Hadoop cluster, maximize your investment in Hadoop, and avoid common pitfalls when building your Hadoop cluster From programmers challenged with building and maintaining affordable, scaleable data systems to administrators who must deal with huge volumes of information effectively and efficiently, this how-to has something to help you with Hadoop.

As one of the most popular software languages for building Web applications, Java is often the first programming language developers learn.Completely revised and packed with updates for new versions of Java, the Java Programming 24-Hour Trainer, Second Edition self-paced book + video package provides everything beginners need to get started programming Java with no prior programming experience needed. As with the first edition, Java Programming 24-Hour Trainer features easy-to-follow lessons, reinforced by step-by-step instructions, screencasts, and supplemental exercises, all of which allow readers of all learning styles to master Java programming quickly and painlessly. The more than 10 hours of popular Java programming screencasts from the first edition are completely updated and revised to be

more watchable than ever. This edition includes updates for Java SE 8 and Java EE 7 but continues to be useful whatever recent version of Java you choose to learn with. Lessons include: Object-Oriented Programming with Java Class Methods and Constructors Java Syntax: Bits and Pieces Packages, Interfaces, and Encapsulation Programming with Abstract Classes and Interfaces Error handling GUI Basics with Swing Event Handling in Swing GUI GUI Basics with JavaFX - NEW! Developing a game with JavaFX - NEW! Collections Generics Lambda Expressions - NEW! Working with Streams Java Serialization Network Programming Basics Streaming API - NEW! Introduction to Multi-Threading More on Concurrency Working with Databases Using JDBC Rendering Table Data to GUI Annotations and Reflection Remote Method Invocation Java EE 7 Overview - NEW! Programming with Servlets JavaServer Pages Web Applications with WebSockets - NEW! Java Messaging Service Java Naming and Directory Interface Enterprise JavaBeans Java Persistence API RESTful Web Services With JAX-RS Introduction to Spring MVC Framework Introduction to Spring Security - NEW! Build Automation with Gradle - NEW! Java Technical Interviews strong style="color:

This open access book offers a summary of the development of Digital Earth over the past twenty years. By reviewing the initial vision of Digital Earth, the evolution of that vision, the relevant key technologies, and the role of Digital Earth in helping people respond to global challenges, this publication reveals how and why Digital Earth is becoming vital for acquiring, processing, analysing and mining the rapidly growing volume of global data sets about the Earth. The main aspects of Digital Earth covered here include: Digital Earth platforms, remote sensing and navigation satellites, processing and visualizing geospatial information, geospatial information infrastructures, big data and cloud computing, transformation and zooming, artificial intelligence, Internet of Things, and social media. Moreover, the book covers in detail the multi-layered/multi-faceted roles of Digital Earth in response to sustainable development goals, climate changes, and mitigating disasters, the applications of Digital Earth (such as digital city and digital heritage), the citizen science in support of Digital Earth, the economic value of Digital Earth, and so on. This book also reviews the regional and national development of Digital Earth around the world, and discusses the role and effect of education and ethics. Lastly, it concludes with a summary of the challenges and forecasts the future trends of Digital Earth. By sharing case studies and a broad range of general and scientific insights into the science and technology of Digital Earth, this book offers an essential introduction for an ever-growing international audience.

This open access book explores the global challenges and experiences related to digital entrepreneurial activities, using carefully selected examples from leading companies and economies that shape world business today and tomorrow. Digital entrepreneurship and the companies steering it have an enormous global impact; they promise to transform the business world and change the way we communicate with each other. These companies use digitalization and artificial

intelligence to enhance the quality of decisions and augment their business and customer operations. This book demonstrates how cloud services are continuing to evolve; how cryptocurrencies are traded in the banking industry; how platforms are created to commercialize business, and how, taken together, these developments provide new opportunities in the digitalized era. Further, it discusses a wide range of digital factors changing the way businesses operate, including artificial intelligence, chatbots, voice search, augmented and virtual reality, as well as cyber threats and data privacy management. "Digitalization mirrors the Industrial Revolution's impact. This book provides a complement of perspectives on the opportunities emanating from such a deep seated change in our economy. It is a comprehensive collection of thought leadership mapped into a very useful framework. Scholars, digital entrepreneurs and practitioners will benefit from this timely work." Gina O'Connor, Professor of Innovation Management at Babson College, USA "This book defines and delineates the requirements for companies to enable their businesses to succeed in a post-COVID19 world. This book deftly examines how to accomplish and achieve digital entrepreneurship by leveraging cloud computing, AI, IoT and other critical technologies. This is truly a unique "must-read" book because it goes beyond theory and provides practical examples." Charlie Isaacs, CTO of Customer Connection at Salesforce.com, USA "This book provides digital entrepreneurs useful guidance identifying, validating and building their venture. The international authors developed new perspectives on digital entrepreneurship that can support to create impact ventures." Felix Staeritz, CEO FoundersLane, Member of the World Economic Forum Digital Leaders Board and bestselling author of FightBack, Germany

This book focuses on automotive user interfaces for in-vehicle usage, looking at car electronics, its software of hidden technologies (e.g., ASP, ESP), comfort functions (e.g., navigation, communication, entertainment) and driver assistance (e.g., distance checking). The increased complexity of automotive user interfaces, driven by the need for using consumer electronic devices in cars as well as autonomous driving, has sparked a plethora of new research within this field of study. Covering a broad spectrum of detailed topics, the authors of this edited volume offer an outstanding overview of the current state of the art; providing deep insights into usability and user experience, interaction techniques and technologies as well as methods, tools and its applications, exploring the increasing importance of Human-Computer-Interaction (HCI) within the automotive industry Automotive User Interfaces is intended as an authoritative and valuable resource for professional practitioners and researchers alike, as well as computer science and engineering students who are interested in automotive interfaces.

Solomon and Higgins's engaging text covers philosophy's central ideas in an accessible, approachable manner. You'll explore timeless big questions about the self, God, justice, and other meaningful topics, gaining the context you need for an understanding of the foundational

issues, as well as the confidence to establish your own informed positions on these big questions. Available with InfoTrac Student Collections http://gocengage.com/infotrac. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

First published in 1985. Routledge is an imprint of Taylor & Francis, an informa company.

'One of the best books yet written on data and algorithms. . .deserves a place on the bestseller charts.' (The Times) You are accused of a crime. Who would you rather determined your fate - a human or an algorithm? An algorithm is more consistent and less prone to error of judgement. Yet a human can look you in the eye before passing sentence. Welcome to the age of the algorithm, the story of a not-too-distant future where machines rule supreme, making important decisions - in healthcare, transport, finance, security, what we watch, where we go even who we send to prison. So how much should we rely on them? What kind of future do we want? Hannah Fry takes us on a tour of the good, the bad and the downright ugly of the algorithms that surround us. In Hello World she lifts the lid on their inner workings, demonstrates their power, exposes their limitations, and examines whether they really are an improvement on the humans they are replacing. A BBC RADIO 4- BOOK OF THE WEEK SHORTLISTED FOR THE 2018 BAILLIE GIFFORD PRIZE AND 2018 ROYAL SOCIETY SCIENCE BOOK PRIZE

This timely revision will feature the latest Internet issues and provide an updated comprehensive look at social and ethical issues in computing from a computer science perspective.

In recent years, many companies have realised customer experience (CX) is the new marketing battle ground. Substantial investments have been made to map customer journeys, identify pain points and improve CX to try and create cut-through. Using real world applications to introduce next generation design tools based on proven concepts from strategy, marketing, psychology and creative problem solving, Lean CX: How to Differentiate at Low Cost and Least Risk discusses how to use Lean Management approaches to innovate your customer experience. This practical book describes how the tools from Lean Management can be applied to the CX innovation problem. The authors draw on hundreds of CX design and strategic innovation projects across a range of industries, both B2B and B2C, from primary research through client work and secondary case studies available in the public domain. The examples include many different vertical industry sectors, including those involving hybrid business models. The cases included share what worked really well and where CX failed. The content goes beyond what actually happened to present an idea of what might be possible with the right design approach and committed resources.

PME SA NF MOVING WORLD A

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.

The book is an easy-to-follow guide with clear instructions on various mobile forensic techniques. The chapters and the topics within are structured for a smooth learning curve, which will swiftly empower you to master mobile forensics. If you are a budding forensic analyst, consultant, engineer, or a forensic professional wanting to expand your skillset, this is the book for you. The book will also be beneficial to those with an interest in mobile forensics or wanting to find data lost on mobile devices. It will be helpful to be familiar with forensics in general but no prior experience is required to follow this book.

Esta enciclopedia presenta numerosas experiencias y discernimientos de profesionales de todo el mundo sobre discusiones y perspectivas de la la interacción hombre-computadoras

This casebook demonstrates that the future of global business lies in how well the multinational landscape is charted and how the importance of Asian market leaders is deeply embedded in it. It offers international management students and researchers an extensive guide to the business history, strategy development, and foreign market entry modes used by emerging Asian multinationals. The cases focus on well-known companies such as Lenovo, Alibaba, Infosys, Huawei, Panasonic, and Rakuten. These companies, all of which generate huge revenues in their own countries (e.g. in China, India, South Korea, Taiwan, Vietnam), are now becoming increasingly sophisticated and striving to become global brands, while also enjoying the active support of their governments in terms of their international business. Readers will learn about the current multinational landscape in Asia, the management challenges, and the future implications for traditional western companies seeking to retain their market share. Chapters on corporate entrepreneurship, human resource management and intercultural competence, and current branding trends in Asia will provide a cutting-edge update on international business strategy for students and practitioners alike.

Take a stand against the giants in this adventure for the world's greatest roleplaying game Giants have emerged from their strongholds to threaten civilization as never before. Hill giants are stealing all the grain and livestock they can while stone giants have been scouring settlements that have been around forever. Fire giants are press-ganging the smallfolk into the desert, while frost giant longships have been pillaging along the Sword Coast. Even the elusive cloud giants have been witnessed, their wondrous floating cities appearing above Waterdeep and Baldur's Gate. Where is the storm giant King Hekaton, who is tasked with keeping order among the giants? The humans, dwarves, elves, and other small folk of the Sword Coast will be crushed underfoot from the onslaught of these giant foes. The only chance at survival is for the small folk to work together to investigate this invasion and harness the power of rune magic, the giants' weapon against their ancient enemy the dragons. The only way the people of Faerun can restore order is to use the giants' own power against them. To defeat giants, you need to be giant!

In June 2019, the Committee on the Judiciary initiated a bipartisan investigation into the state of competition online, spearheaded by the Subcommittee on Antitrust, Commercial and Administrative Law. As part of a top-to-bottom review of the market, the Subcommittee examined the dominance of Amazon, Apple, Facebook, and Google, and their business practices to determine how

their poweraffects our economy and our democracy. Additionally, the Subcommittee performed a review of existing antitrust laws, competition policies, and current enforcement levels to assess whether they areadequate to address market power and anticompetitive conduct in digital markets. Over the course of our investigation, we collected extensive evidence from these companies aswell as from third parties-totaling nearly 1.3 million documents. We held seven hearings to review the effects of market power online-including on the free and diverse press, innovation, and privacy-and a final hearing to examine potential solutions to concerns identified during the investigation and to inform this Report's recommendations. A year after initiating the investigation, we received testimony from the Chief ExecutiveOfficers of the investigated companies: Jeff Bezos, Tim Cook, Mark Zuckerberg, and Sundar Pichai. For nearly six hours, we pressed for answers about their business practices, including about evidence concerning the extent to which they have exploited, entrenched, and expanded their power over digitalmarkets in anticompetitive and abusive ways. Their answers were often evasive and non-responsive, raising fresh questions about whether they believe they are beyond the reach of democratic oversight. Although these four corporations differ in important ways, studying their business practices hasrevealed common problems

(Quick Pro Guides). Dot Bustelo's signature approach to teaching Logic will get you up and running quickly. She'll help you move beyond the basics to discover a professional-level Logic workflow, taught through highly musical examples that expose Logic's essential features and powerful production tools. You'll find many of the tips, tricks, and insider techniques that powered Logic to its industry-leading status as the best tool for unleashing creativity in songwriting, composing, making beats, and remixing. Plus, find out why musicians over the years have sworn Logic "grooves better." Dot provides the powerful methodology for creating in Logic that she has shared with countless high-profile bands and Grammy Award-winning producers and engineers. Here's just a sampling of what some of music's most successful artists say about Dot's approach to Logic: Ronnie Vannucci, The Killers: "Dot has made Logic, well, logical." Ryan Tedder, OneRepublic: "Dot Bustelo has hands down the most extensive working knowledge of Logic and all its intricacies." James Valentine, Maroon 5: "Dot was the first one to introduce me to Logic.... She knows this software inside and out, and she breaks everything down in an easy-to-understand way. And she knows the best insider techniques that will make your recording more efficient and creative.... I wonder when Dot will get sick of me asking her Logic-related questions?" Nathaniel Motte, 3OH!3: "Dot has provided me with an incredible source of in-depth and practical knowledge of Apple's Logic program. She has shown me tricks in Logic that have opened creative doors that I didn't even know existed." Chad Hugo, N.E.R.D., The Neptunes: "When you got a Logic problem / Dot has wrote a book to solve 'em . . . / And this right here is it. Yeya!" This ebook includes supplemental material.

Infotech, second edition, is a comprehensive course for intermediate level learners who need to be able to understand the English of computing for study and work. Thoroughly revised by the same author it offers up to date material on this fast moving area. The course does not require a specialist knowledge of computers on either the part of the student or the teacher. The 30 units are organized into seven thematically linked sections and cover a range of subject matter, from Input/output devices for the disabled to

Multimedia and Internet issues. Key features of the Teacher's Book: - exhausative support for the teacher, with technical help where needed - a photocopiable extra activities section - answer key and tapescripts

A Practitioners' Guide to Alteryx will show new functionality and use cases you never knew existed. The book covers how to build Alteryx Workflows, Analytic Applications, and Macros while covering over 60 of the tools Alteryx provides. By the end of the book the reader should be able to use basic Alteryx tools, work with relational, spatial object, report object, and JSON structured data, create reports, create Analytic Applications, create Macros, and create expressions including Boolean and string manipulation.

In Out of Africa, author Isak Dinesen takes a wistful and nostalgic look back on her years living in Africa on a Kenyan coffee plantation. Recalling the lives of friends and neighbours—both African and European—Dinesen provides a first-hand perspective of colonial Africa. Through her obvious love of both the landscape and her time in Africa, Dinesen's meditative writing style deeply reflects the themes of loss as her plantation fails and she returns to Europe. HarperTorch brings great works of non-fiction and the dramatic arts to life in digital format, upholding the highest standards in ebook production and celebrating reading in all its forms. Look for more titles in the HarperTorch collection to build your digital library.

Up-to-the-Minute, Complete Guidance for Developing Embedded Solutions with Linux Linux has emerged as today's #1 operating system for embedded products. Christopher Hallinan's Embedded Linux Primer has proven itself as the definitive real-world guide to building efficient, high-value, embedded systems with Linux. Now, Hallinan has thoroughly updated this highly praised book for the newest Linux kernels, capabilities, tools, and hardware support, including advanced multicore processors. Drawing on more than a decade of embedded Linux experience, Hallinan helps you rapidly climb the learning curve, whether you're moving from legacy environments or you're new to embedded programming. Hallinan addresses today's most important development challenges and demonstrates how to solve the problems you're most likely to encounter. You'll learn how to build a modern, efficient embedded Linux development environment, and then utilize it as productively as possible. Hallinan offers up-to-date guidance on everything from kernel configuration and initialization to bootloaders, device drivers to file systems, and BusyBox utilities to real-time configuration and system analysis. This edition adds entirely new chapters on UDEV, USB, and open source build systems. Tour the typical embedded system and development environment and understand its concepts and components. Understand the Linux kernel and userspace initialization processes. Preview bootloaders, with specific emphasis on U-Boot. Configure the Memory Technology Devices (MTD) subsystem to interface with flash (and other) memory devices. Make the most of BusyBox and latest open source development tools. Learn from expanded and updated coverage of kernel debugging. Build and analyze real-time systems with Linux. Learn to configure device files and driver loading with UDEV. Walk through detailed coverage of the USB subsystem. Introduces the latest open source embedded Linux build systems. Reference appendices include U-Boot and BusyBox commands.

"...a must-read text that provides a historical lens to see how ubicomp has matured into a multidisciplinary endeavor. It will be an essential reference to researchers and those who want to learn more about this evolving field." -From the Foreword, Professor Gregory D. Abowd, Georgia Institute of Technology First introduced two decades ago, the term ubiquitous computing is now part of the common vernacular. Ubicomp, as it is commonly called, has grown not just quickly but broadly so as to encompass a wealth of concepts and technology that serves any number of purposes across all of human endeavor. While such growth is positive, the newest generation of ubicomp practitioners and researchers, isolated to specific tasks, are in danger of losing their sense of history and the broader perspective that has been so essential to the field's creativity and brilliance. Under the guidance of John Krumm, an original ubicomp pioneer, Ubiquitous Computing Fundamentals brings together eleven ubiquitous computing trailblazers who each report on his or her area of expertise. Starting with a historical introduction, the book moves on to summarize a number of self-contained topics. Taking a decidedly human perspective, the book includes discussion on how to observe people in their natural environments and evaluate the critical points where ubiquitous computing technologies can improve their lives. Among a range of topics this book examines: How to build an infrastructure that supports ubiquitous computing applications Privacy protection in systems that connect personal devices and personal information Moving from the graphical to the ubiquitous computing user interface Techniques that are revolutionizing the way we determine a person's location and understand other sensor measurements While we needn't become expert in every sub-discipline of ubicomp, it is necessary that we appreciate all the perspectives that make up the field and understand how our work can influence and be influenced by those perspectives. This is important, if we are to encourage future generations to be as successfully innovative as the field's originators.

Revised edition of the author's Innovation management and new product development, 2012.

Designed for teaching astrophysics to physics students at advanced undergraduate or beginning graduate level, this textbook also provides an overview of astrophysics for astrophysics graduate students, before they delve into more specialized volumes. Assuming background knowledge at the level of a physics major, the textbook develops astrophysics from the basics without requiring any previous study in astronomy or astrophysics. Physical concepts, mathematical derivations and observational data are combined in a balanced way to provide a unified treatment. Topics such as general relativity and plasma physics, which are not usually covered in physics courses but used extensively in astrophysics, are developed from first principles. While the emphasis is on developing the fundamentals thoroughly, recent important discoveries are highlighted at every stage.

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