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Microorganisms are ubiquitously present in petroleum reservoirs and the facilities that produce them. Pipelines, vessels, and other equipment used in upstream oil and gas operations provide a vast and predominantly anoxic environment for microorganisms to thrive. The biggest technical challenge resulting from microbial activity in these engineered environments is the impact on materials integrity. Oilfield microorganisms can affect materials integrity profoundly through a multitude of elusive (bio)chemical mechanisms, collectively

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referred to as microbiologically influenced corrosion (MIC). MIC is estimated to account for 20 to 30% of all corrosion-related costs in the oil and gas industry. This book is intended as a comprehensive reference for integrity engineers, production chemists, oilfield microbiologists, and scientists working in the field of petroleum microbiology or corrosion. Exhaustively researched by leaders from both industry and academia, this book discusses the latest technological and scientific advances as well as relevant case studies to convey to readers an understanding of MIC and its effective management. When it's time to wire your car, whether it's a restoration project, race car, kit car, trailer, or street

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rod, don't be intimidated; wire it yourself. Jim Horner shares his years of experience and cuts through the technical jargon to show you how. Learn about basic electrical theory, how various electrical components work and drawing circuit diagrams. Includes tips on using electrical test equipment and troubleshooting electrical circuits. Choose the right components, build your own wiring harness, and install them by following the step-by-step instructions. Profusely illustrated with over 350 photos, drawings, and diagrams. Suppliers list included.

The subject of time series is of considerable interest, especially among researchers in econometrics, engineering, and the natural sciences. As part of the

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prestigious Wiley Series in Probability and Statistics, this book provides a lucid introduction to the field and, in this new Second Edition, covers the important advances of recent years, including nonstationary models, nonlinear estimation, multivariate models, state space representations, and empirical model identification. New sections have also been added on the Wold decomposition, partial autocorrelation, long memory processes, and the Kalman filter. Major topics include: * Moving average and autoregressive processes * Introduction to Fourier analysis * Spectral theory and filtering * Large sample theory * Estimation of the mean and autocorrelations * Estimation of the spectrum * Parameter estimation *

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Regression, trend, and seasonality * Unit root and explosive time series To accommodate a wide variety of readers, review material, especially on elementary results in Fourier analysis, large sample statistics, and difference equations, has been included.

An introduction to marketing concepts, strategies and practices with a balance of depth of coverage and ease of learning. Principles of Marketing keeps pace with a rapidly changing field, focussing on the ways brands create and capture consumer value. Practical content and linkage are at the heart of this edition. Real local and international examples bring ideas to life and new feature 'linking the concepts' helps students test and consolidate understanding

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as they go. The latest edition enhances understanding with a unique learning design including revised, integrative concept maps at the start of each chapter, end-of-chapter features summarising ideas and themes, a mix of mini and major case studies to illuminate concepts, and critical thinking exercises for applying skills.

Principles of Marketing

Introduction to Statistical Time Series

Handbook of Polymer Synthesis, Characterization, and Processing

Omega Highlights

Management Guidelines for Improving Outcomes

The Photography Storytelling Workshop

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This third edition of Paul Murrell's classic book on using R for graphics represents a major update, with a complete overhaul in focus and scope. It focuses primarily on the two core graphics packages in R - graphics and grid - and has a new section on integrating graphics. This section includes three new chapters: importing external images in to R; integrating the graphics and grid systems; and advanced SVG graphics. The emphasis in this third edition is on having the ability to produce detailed and customised graphics in a wide variety of formats, on being able to share and reuse those graphics, and on being able to integrate graphics from multiple systems. This book is aimed at all levels of

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R users. For people who are new to R, this book provides an overview of the graphics facilities, which is useful for understanding what to expect from R's graphics functions and how to modify or add to the output they produce. For intermediate-level R users, this book provides all of the information necessary to perform sophisticated customizations of plots produced in R. For advanced R users, this book contains vital information for producing coherent, reusable, and extensible graphics functions.

Los Angeles magazine is a regional magazine of national stature. Our combination of award-winning feature writing, investigative reporting, service journalism, and

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design covers the people, lifestyle, culture, entertainment, fashion, art and architecture, and news that define Southern California. Started in the spring of 1961, Los Angeles magazine has been addressing the needs and interests of our region for 48 years. The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian.

Would life be better without alcohol? It's the nagging question more and more of us are finding harder to ignore, whether we have a "problem" with alcohol or not. After all, we yoga. We green juice. We meditate. We self-care. And yet, come the end of a long work day, the start

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of a weekend, an awkward social situation, we drink. One glass of wine turns into two turns into a bottle. In the face of how we care for ourselves otherwise, it's hard to avoid how alcohol really makes us feel... terrible. How different would our lives be if we stopped drinking on autopilot? If we stopped drinking altogether? Really different, it turns out. Really better. Frank, funny, and always judgment free, *Sober Curious* is a bold guide to choosing to live hangover-free, from Ruby Warrington, one of the leading voices of the new sobriety movement. Drawing on research, expert interviews, and personal narrative, *Sober Curious* is a radical take down of the myths that keep so many of us drinking. Inspiring, timely,

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and blame free, Sober Curious is both conversation starter and handbook—essential reading that empowers readers to transform their relationship with alcohol, so we can lead our most fulfilling lives.

This beautiful and exciting book presents the most stunning and important Omega watches. A range of over 100 marvelous photographs, informative text, and technical details document more than 60 years of fascinating wristwatch design of one of the world's best known and most popular Swiss wristwatch manufacturers. Among the memorable wristwatches included here are the Speedmaster model that went to the moon and the James Bond edition that served on

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Her Majesty's Secret Service. The rest of the models covered include, first, the historical models, and the Legend Collection, Seamaster, Chronographs, Olympic Collection, and Elegant Watches. Technical information provided for each watch includes the reference number, movement, functions, case, remarks, and the estimated value in the year the model was produced. This book will be a joy for all who appreciate fine craftsmanship.

Fundamentals and Applications

Sober Curious

R Graphics, Third Edition

The Story of Our History-Making Balloon Flight

Abraham Joshua Heschel and Edith Stein on the

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Significance of Empathy for Jewish-Christian Dialogue The Rolex Story

This open access book offers the first comprehensive account of the pan-genome concept and its manifold implications. The realization that the genetic repertoire of a biological species always encompasses more than the genome of each individual is one of the earliest examples of big data in biology that opened biology to the unbounded. The study of genetic variation observed within a species challenges existing views and has profound consequences for our understanding of the fundamental mechanisms underpinning bacterial biology and evolution. The underlying rationale extends well beyond the initial prokaryotic focus to all kingdoms of life and evolves into similar concepts for

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metagenomes, phenomes and epigenomes. The books respective chapters address a range of topics, from the serendipitous emergence of the pan-genome concept and its impacts on the fields of microbiology, vaccinology and antimicrobial resistance, to the study of microbial communities, bioinformatic applications and mathematical models that tie in with complex systems and economic theory. Given its scope, the book will appeal to a broad readership interested in population dynamics, evolutionary biology and genomics.

The second edition explains the principles of recombinant DNA technology as well as other important techniques such as DNA sequencing, the polymerase chain reaction, and the production of monoclonal antibodies.

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Gain guidance and support when treating the high-risk population of women confronting (or battling) opioid-use disorders during pregnancy.

A Comprehensive Compilation of Decisions, Reports, Public Notices, and Other Documents of the Federal Communications Commission of the United States

Workflow-based Process Controlling

Foundation, Design, and Application of Workflow-driven

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Process Information Systems

Cold and Hot Forging

Beyond the Walls

With more than 60 practical and creative hacks, this book helps you turn Raspberry Pi into the centerpiece of some cool electronics projects. Want to create a controller for a camera or a robot? Set up Linux distributions for media centers or PBX phone systems? That's just the beginning of what you'll find inside Raspberry Pi Hacks. If you're looking to build either a software or hardware project with more computing power than Arduino alone can provide, Raspberry Pi is

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just the ticket. And the hacks in this book will give you lots of great ideas. Use configuration hacks to get more out of your Pi Build your own web server or remote print server Take the Pi outdoors to monitor your garden or control holiday lights Connect with SETI or construct an awesome Halloween costume Hack the Pi's Linux OS to support more complex projects Decode audio/video formats or make your own music player Achieve a low-weight payload for aerial photography Build a Pi computer cluster or a solar-powered lab Metabolomics – which deals with all metabolites of an organism – is a rapidly-emerging sector of post-genom

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research fields. It plays significant roles in a variety of fields from medicine to agriculture and holds a fundamental position in functional genomics studies and their application in plant biotechnology. This volume comprehensively covers plant metabolomics for the first time. The chapters offer cutting-edge information on analytical technology, bioinformatics and applications. They were all written by leading researchers who have been directly involved in plant metabolomics research throughout the world. Up-to-date information and future developments are described, thereby producing a volume which is a landmark of plant metabolomics research and

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a beneficial guideline to graduate students and researchers in academia, industry, and technology transfer organizations in all plant science fields. This book is an anthology of effective database management techniques representing the collective wisdom of the OakTable Network. With an emphasis upon performance—but also branching into security, national language, and other issues—the book helps you deliver the most value for your company's investment in Oracle Database technologies. You'll learn to effectively plan for and monitor performance, to troubleshoot systematically when things go wrong, and to manage

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your database rather than letting it manage you. Joseph Palmisano explores the interreligious significance of empathy for Jewish-Christian understanding. Drawing on the writings of Rabbi Abraham Joshua Heschel (1907-1972) and Edith Stein (1891-1942), he develops a phenomenological category of empathy defined as a way of "re-remembering" oneself with the religious other.

Omega

A Five-Step Guide to Creating Unforgettable
Photographs

The Catalog of Producers, Models, and Specifications

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WCRE 2003 : Proceedings : Victoria, B.C., Canada,
13-16 November, 2003

Wristwatch Annual 2008

The Blissful Sleep, Greater Focus, Limitless Presence,
and Deep Connection Awaiting Us All on the Other Side
of Alcohol

The definitive book for the collector of mechanical
wristwatches includes complete information on over 1,700
models, including prices.

Master the robust features of R parallel programming to
accelerate your data science computations About This
Book Create R programs that exploit the computational

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capability of your cloud platforms and computers to the fullest Become an expert in writing the most efficient and highest performance parallel algorithms in R Get to grips with the concept of parallelism to accelerate your existing R programs Who This Book Is For This book is for R programmers who want to step beyond its inherent single threaded and restricted memory limitations and learn how to implement highly accelerated and scalable algorithms that are a necessity for the performant processing of Big Data. No previous knowledge of parallelism is required. This book also provides for the more advanced technical programmer seeking to go beyond high level parallel frameworks. What You Will Learn Create and structure

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efficient load-balanced parallel computation in R, using R's built-in parallel package Deploy and utilize cloud-based parallel infrastructure from R, including launching a distributed computation on Hadoop running on Amazon Web Services (AWS) Get accustomed to parallel efficiency, and apply simple techniques to benchmark, measure speed and target improvement in your own code Develop complex parallel processing algorithms with the standard Message Passing Interface (MPI) using RMPI, pbdMPI, and SPRINT packages Build and extend a parallel R package (SPRINT) with your own MPI-based routines Implement accelerated numerical functions in R utilizing the vector processing capability of your Graphics

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Processing Unit (GPU) with OpenCL Understand parallel programming pitfalls, such as deadlock and numerical instability, and the approaches to handle and avoid them Build a task farm master-worker, spatial grid, and hybrid parallel R programs In Detail R is one of the most popular programming languages used in data science. Applying R to big data and complex analytic tasks requires the harnessing of scalable compute resources. Mastering Parallel Programming with R presents a comprehensive and practical treatise on how to build highly scalable and efficient algorithms in R. It will teach you a variety of parallelization techniques, from simple use of R's built-in parallel package versions of `lapply()`, to high-level AWS

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cloud-based Hadoop and Apache Spark frameworks. It will also teach you low level scalable parallel programming using RMPI and pbdMPI for message passing, applicable to clusters and supercomputers, and how to exploit thousand-fold simple processor GPUs through ROpenCL. By the end of the book, you will understand the factors that influence parallel efficiency, including assessing code performance and implementing load balancing; pitfalls to avoid, including deadlock and numerical instability issues; how to structure your code and data for the most appropriate type of parallelism for your problem domain; and how to extract the maximum performance from your R code running on a variety of computer systems. Style

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and approach This book leads you chapter by chapter from the easy to more complex forms of parallelism. The author's insights are presented through clear practical examples applied to a range of different problems, with comprehensive reference information for each of the R packages employed. The book can be read from start to finish, or by dipping in chapter by chapter, as each chapter describes a specific parallel approach and technology, so can be read as a standalone.

FCC RecordA Comprehensive Compilation of Decisions, Reports, Public Notices, and Other Documents of the Federal Communications Commission of the United StatesMicrobiologically Influenced Corrosion in the

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Upstream Oil and Gas IndustryCRC Press

This book provides an elementary-level introduction to R, targeting both non-statistician scientists in various fields and students of statistics. The main mode of presentation is via code examples with liberal commenting of the code and the output, from the computational as well as the statistical viewpoint. Brief sections introduce the statistical methods before they are used. A supplementary R package can be downloaded and contains the data sets. All examples are directly runnable and all graphics in the text are generated from the examples. The statistical methodology covered includes statistical standard distributions, one- and two-sample tests with continuous data, regression analysis, or

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and two-way analysis of variance, regression analysis, analysis of tabular data, and sample size calculations. In addition, the last four chapters contain introductions to multiple linear regression analysis, linear models in general, logistic regression, and survival analysis.

Scientific and Technical Aerospace Reports

Mastering Parallel Programming with R

Oracle Database Administration from the Oak Table

Multivariate Data Visualization with R

Sport Aviation

FCC Record

***The brand with the crown is recognized
worldwide as an invaluable sports implement***

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and luxury product. In little more than one hundred years, it has become one of the most successful and innovative watch brands on the planet. Rolex manufactures more than a half a million wristwatches per year while maintaining an outstanding reputation and near-perfect quality. From the beginning, the sponsorship of statesmen, movie stars, and athletes has driven its success, but the company has expanded to include more than just the rich and famous. The Rolex Oyster became the first watch to defy the elements when, in 1927, Mercedes Gleitze wore one while she swam the English Channel. In 1933, the company patented the first automatic

winding mechanism. Learn more about this history and read updated reports written about new Rolex ideas and performance tests featured in the German watch magazine Armbanduhren (Wristwatch) from the past 15 years.

Research and innovation in the life sciences is driving rapid growth in agriculture, biomedical science, information science and computing, energy, and other sectors of the U.S. economy. This economic activity, conceptually referred to as the bioeconomy, presents many opportunities to create jobs, improve the quality of life, and continue to drive economic growth. While the United States has been a leader in

advancements in the biological sciences, other countries are also actively investing in and expanding their capabilities in this area. Maintaining competitiveness in the bioeconomy is key to maintaining the economic health and security of the United States and other nations. Safeguarding the Bioeconomy evaluates preexisting and potential approaches for assessing the value of the bioeconomy and identifies intangible assets not sufficiently captured or that are missing from U.S. assessments. This study considers strategies for safeguarding and sustaining the economic activity driven by research and innovation in the

life sciences. It also presents ideas for horizon scanning mechanisms to identify new technologies, markets, and data sources that have the potential to drive future development of the bioeconomy.

This book focuses on the context dependency of cell signaling by showing how the endosomal system helps to structure and regulate signaling pathways. The location and concentration of signaling nodes regulate their activation cycles and engagement with distinct effector pathways. Whilst many cell signaling pathways are initiated from the cell surface, endocytosis provides an opportunity for modulating

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signaling networks' output. In this book, first a series of reviews describe the endocytic and endosomal system and show how these subcellular platforms sort and regulate a wide range of signaling pathway components and phenotypic outputs. The book then reviews the latest scientific insights into how endocytic trafficking and subcellular location modulate a set of major pathways that are essential to normal cellular function and organisms' development.

"...the most complete explanation of aeronautical concepts for pilots pursuing a Private Pilot certificate."-- cover.

Around the World in 20 Days

***Tips & Tools for Making Things with the
Inexpensive Linux Computer***

***10th Working Conference on Reverse
Engineering***

Plant Metabolomics

***Vessel Health and Preservation: The Right
Approach for Vascular Access***

***Principles and Applications of Recombinant
DNA***

**This Open access book offers updated and
revised information on vessel health and
preservation (VHP), a model concept first**

published in poster form in 2008 and in JVA in 2012, which has received a great deal of attention, especially in the US, UK and Australia. The book presents a model and a new way of thinking applied to vascular access and administration of intravenous treatment, and shows how establishing and maintaining a route of access to the bloodstream is essential for patients in acute care today. Until now, little thought has been given to an intentional process to guide selection, insertion and management of vascular access devices (VADs) and by

default actions are based on crisis management when a quickly selected VAD fails. The book details how VHP establishes a framework or pathway model for each step of the patient experience, intentionally guiding, improving and eliminating risk when possible. The evidence points to the fact that reducing fragmentation, establishing a pathway, and teaching the process to all stakeholders reduces complications with intravenous therapy, improves efficiency and diminishes cost. As such this book appeals to bedside nurses,

physicians and other health professionals. Describes the round-the-world flight of the Breitling Orbiter 3 balloon that took off from Switzerland and landed twenty days and 29,000 miles later in Egypt. Editors Altan (Ohio State University), Ngaile (North Carolina University), and Shen (Ladish Company, Inc.) offer this extensive overview of the latest developments in the design of forging operations and dies. Basic technological principles are briefly reviewed in the first two chapters. Chosen by design expert Frédéric Chambre,

this selection of furniture designs unspools like the frames of a film, an epic picture composed of one hundred years of creative innovations in form, materials, and techniques. This hand-bound oversize luxury edition, presented in a linen clamshell case, traces the development of twentieth-century design from the Art Nouveau and Arts and Crafts movements through Bauhaus and Art Deco, Pop Art and the Memphis school, to today's digital age, illustrating the dynamic story of a groundbreaking century through the evolution of everyday human objects.

**Microbiologically Influenced Corrosion in
the Upstream Oil and Gas Industry**

The AOPA Pilot

Guided Flight Discovery

Safeguarding the Bioeconomy

A Journey Through Time

Expert Oracle Practices

*Covering a broad range of polymer science
topics, Handbook of Polymer Synthesis,
Characterization, and Processing provides
polymer industry professionals and
researchers in polymer science and*

technology with a single, comprehensive handbook summarizing all aspects involved in the polymer production chain. The handbook focuses on industrially important polymers, analytical techniques, and formulation methods, with chapters covering step-growth, radical, and co-polymerization, crosslinking and grafting, reaction engineering, advanced technology applications, including conjugated, dendritic, and nanomaterial polymers and emulsions, and characterization methods, including spectroscopy, light

scattering, and microscopy.

Don't just take a picture, make it. Using a proven five-step process - Pitch, Prepare, Shoot, Edit and Deliver - readers will develop the same successful, reliable working methods that earn influence and delight audiences, regardless of what genre you're working in.

Workflow-based Process Controlling Systems provide companies with the ability to measure the operational performance of their business processes in a timely and accurate fashion.

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The combination of workflow audit trails with data warehouse technology and operational business data allows for complex analyses that can support managers in their assessment of an organization's performance. The increasing maturity of business process management and data warehouse systems enables the design and development of advanced process-oriented management information systems. Michael zur Muehlen discusses the integration of workflow audit trail data with existing data warehouse

structures and develops a reference architecture for process-oriented management information systems. Starting with an organizational and technical analysis of process organizations, this book provides a comprehensive documentation of business process management, workflow technology, and existing standardization efforts The proposed reference architecture is validated in an industry context. A prototypical implementation of the reference architecture and its integration with a commercial

business process management system are demonstrated as well. This book is directed at both practitioners and academics in the fields of business process management, management accounting, and information systems research. Michael zur Muehlen is Assistant Professor of Information Systems at Stevens Institute of Technology in Hoboken, NJ, USA, where he directs the SAP/IDS Center of Excellence in Business Process Innovation. Michael is an active contributor to several standardization groups in the workflow

domain, and a director of the AIS special interest group on Process Automation and Management.

Written by the author of the lattice system, this book describes lattice in considerable depth, beginning with the essentials and systematically delving into specific low levels details as necessary. No prior experience with lattice is required to read the book, although basic familiarity with R is assumed. The book contains close to 150 figures produced with lattice. Many of the examples emphasize

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principles of good graphical design; almost all use real data sets that are publicly available in various R packages. All code and figures in the book are also available online, along with supplementary material covering more advanced topics.

Los Angeles Magazine

~Theœ Interior as an Embodiment of Power

How to Wire Your Car from Scratch

Introductory Statistics with R

Private Pilot Syllabus

The Impossible Collection of Design

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The 35 papers in WCRE 2003 reflect the state-of-the-art in software reverse engineering. Reverse engineering examines existing software assets and infers knowledge regarding their code structure, architecture design and development process. Such knowledge is invaluable in the process of maintaining, evolving and otherwise reusing existing software. Equally important, this process enables the consolidation of experiences into "lessons learned" that can shape new software-development practices. PeopleSoft for the Oracle DBA, Second Edition stands on the boundary between the PeopleSoft application and the Oracle database. This new edition of David Kurtz's book

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is freshly revised, showing how to tame the beast and manage Oracle successfully in a PeopleSoft environment. You'll learn about PeopleSoft's Internet architecture and its use of Oracle's Tuxedo Application Server. You'll find full coverage of key database issues such as indexing, connectivity, and tablespace usage as they apply to PeopleSoft. Kurtz also provides some of the best advice and information to be found anywhere on managing and troubleshooting performance issues in a PeopleSoft environment. The solid coverage of performance troubleshooting is enough by itself to make PeopleSoft for the Oracle DBA a must-have book for any Oracle

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Database administrator working in support of a PeopleSoft environment. Explains PeopleSoft's technical architecture as it relates to Oracle Database Demonstrates how to instrument and measure the performance of PeopleSoft Provides techniques to troubleshoot and resolve performance problems

Molecular Biotechnology

Raspberry Pi Hacks

The Image of the Princely Patron and Its Spatial Setting (1400-1700).

Endocytosis and Signaling

Voice of General Aviation

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Opioid-Use Disorders in Pregnancy