

## A Practical Approach To Large Scale Agile Development 94264

An introduction to CFD fundamentals and using commercial CFD software to solve engineering problems, designed for the wide variety of engineering students new to CFD, and for practicing engineers learning CFD for the first time. Combining an appropriate level of mathematical background, worked examples, computer screen shots, and step by step processes, this book walks the reader through modeling and computing, as well as interpreting CFD results. The first book in the field aimed at CFD users rather than developers. New to this edition: A more comprehensive coverage of CFD techniques including discretisation via finite element and spectral element as well as finite difference and finite volume methods and multigrid method. Coverage of different approaches to CFD grid generation in order to closely match how CFD meshing is being used in industry. Additional coverage of high-pressure fluid dynamics and meshless approach to provide a broader overview of the application areas where CFD can be used. 20% new content

This new edition of this bestselling guide offers an integrated approach to process improvement that delivers quick and substantial results in quality and productivity in diverse settings. The authors explore their Model for Improvement that worked with international improvement efforts at multinational companies as well as in different industries such as healthcare and public agencies. This edition includes new information that shows how to accelerate improvement by spreading changes across multiple sites. The book presents a practical tool kit of ideas, examples, and applications.

A successful keyboard text for both college non-music majors and majors with limited keyboard experience. Sight reading, playing by ear, repertoire pieces, harmonizing melodies, improvising, technical exercises and rhythm drills are all presented and reinforced in progressive order.

Are you getting results the results you deserve at the bargaining table? You deserve a great deal but you will have to negotiate for it. Big deal negotiators know the rules to winning great deals without sacrificing their bottom-line. They know how to: Uncover hidden agendas Effectively negotiate price Demand and define tradeoffs Use influence to their advantage Manage power imbalances You can too. Negotiation Rules! is packed with dozens of relevant and practical techniques that will help you successfully negotiate your next big deal. You can't play the game if you don't know the rules!" - Professor G. Richard Shell, author of Bargaining for Advantage and The Art of Woo I know from experience that the concepts and techniques in Negotiation Rules! work. - MaryPat Theiler Cheng, Vice President, Netstar Communications, Inc. Grab this book before your competitors do! - Lee B. Salz, CEO of Business Expert Webinars and author of the award-winning book Soar despite Your Dodo Sales Manager Negotiation Rules! should be on every Sales Professional's reading list. By following the approach in this book you will close BIGGER deals, create happier customers, and ultimately bring home a bigger paycheck. - Jeb Blount, author of Power Principles and Sales Guy's 7 Rules for Outselling the Recession

Data mining is well on its way to becoming a recognized discipline in the overlapping areas of IT, statistics, machine learning, and AI. Practical Data Mining for Business presents a user-friendly approach to data mining methods, covering the typical uses to which it is applied. The methodology is complemented by case studies to create a versatile reference book, allowing readers to look for specific methods as well as for specific applications. The book is formatted to allow statisticians, computer scientists, and economists to cross-reference from a particular application or method to sectors of interest.

High resolution computed tomography (HRCT) is one of the most effective diagnostic tests for

detecting lung diseases. This practical manual presents numerous HRCT images with detailed descriptions to help radiology trainees recognise and diagnose the appearance and distribution patterns of different lung diseases. Beginning with an introduction to HRCT, lung anatomy and an overview of lung disease, the following sections describe different pulmonary conditions, organised in an easy to follow format, with tables and 'key points boxes' for quick reference. This fully revised second edition includes 75 practice cases and more than 500 radiographic images and illustrations. Key points Practical guide to diagnosis of lung diseases using high resolution computed tomography (HRCT) Easy to follow format, with more than 500 radiographic images, illustrations, tables and key points boxes Includes 75 practice cases for self assessment Previous edition published in 2004

This book is intended to be a practical guide in the laboratory for the experimental solar-cell scientist whether he or she is involved with synthesis, device preparation, processing, or device characterization. Useful to all scientists working practically in the field, the book presents the process of creating a polymer solar-cell device beginning with a description of materials, including how they are made and characterized, followed by how the materials are processed into devices and films, and how these are characterized. From there, the status of two emerging fields of polymer solar cells are described: degradation and stability and large-scale processing.

Get a quick, expert overview of the many key facets of lung cancer evaluation and management with this concise, practical resource by Drs. Lynn T. Tanoue and Frank Detterbeck. This easy-to-read reference presents a summary of today's best evidence-based approaches to diagnosis and management in this critical area. Covers diagnosis and evaluation, treatment considerations, and comprehensive care options for patients with lung cancer. Provides insight on evidence for today's best practices, as well as future directions in the field. Consolidates today's evidence-based information on the clinical aspects of lung cancer into one convenient resource.

A hands-on guide to using statistics in health research, from planning, through analysis, and on to reporting A Practical Approach to Using Statistics in Health Research offers an easy to use, step-by-step guide for using statistics in health research. The authors use their experience of statistics and health research to explain how statistics fit in to all stages of the research process. They explain how to determine necessary sample sizes, interpret whether there are statistically significant difference in outcomes between groups, and use measured effect sizes to decide whether any changes are large enough to be relevant to professional practice. The text walks you through how to identify the main outcome measure for your study and the factor which you think may influence that outcome and then determine what type of data will be used to record both of these. It then describes how this information is used to select the most appropriate methods to report and analyze your data. A step-by-step guide on how to use a range of common statistical procedures are then presented in separate chapters. To help you make sure that you are using statistics robustly, the authors also explore topics such as multiple testing and how to check whether measured data follows a normal distribution. Videos showing how to use computer packages to carry out all the various methods mentioned in the book are available on our companion web site. This book: • Covers statistical aspects of all the stages of health research from planning to final reporting • Explains how

to report statistical planning, how analyses were performed, and the results and conclusion • Puts the spotlight on consideration of clinical significance and not just statistical significance • Explains the importance of reporting 95% confidence intervals for effect size • Includes a systematic guide for selection of statistical tests and uses example data sets and videos to help you understand exactly how to use statistics Written as an introductory guide to statistics for healthcare professionals, students and lecturers in the fields of pharmacy, nursing, medicine, dentistry, physiotherapy, and occupational therapy, A Practical Approach to Using Statistics in Health Research:From Planning to Reporting is a handy reference that focuses on the application of statistical methods within the health research context.

Counteracting the panic and fear associated with getting lost in the wild, this handbook equips children with practical tools for overcoming adverse wilderness experiences, even if they are endured alone. Compiled by a search-and-rescue professional, straightforward advice is offered on building shelters and fires, signaling for help, finding water and food, dealing with dangerous animals, learning how to navigate, and avoiding injuries. Practice projects are included to hone survival skills--such as starting a fire with a reflective surface, casting animal tracks, or using a treasure hunt to test navigational aptitude. Making a strong argument for danger prevention, each lesson is coupled with simple instructions and diagrams that will reassure and empower young adventurers.

Agile Project Delivery reviews how different Agile methods can be applied to project delivery in complex corporate environments beyond the Agile Manifesto's original scope of software development. Taking readers through a typical project lifecycle, the text demonstrates how Agile techniques can be applied to each phase of a project using valuable tools and examples. Agile Project Delivery covers various approaches that are used across the many methodologies and frameworks that are part of the Agile family, including Scrum, XP, and Crystal, as well as some of Agile's influences, such as Lean and Kanban. Agile Project Delivery also provides readers with advanced instructions for using Atlassian's industry-leading Agile software, Jira. Bridging the gap between Agile methodology and application, this concise guide features practical delivery approaches, engaging case studies, useful templates to assist in Agile application, and chapter discussion questions to reinforce understanding on how to harness the benefits of Agile. With a focus on settings outside of software development and an accessible, pragmatic approach, Agile Project Delivery is an invaluable resource for students in any project management course, as well as for both aspiring and experienced project practitioners.

Double your odds of leading successful, sustainable change Leaders aren't short on access to change management advice, but the jury has long been out as to which approach is the best one to follow. With the publication of Beyond Performance 2.0, the verdict is well and truly in. By applying the approach detailed by authors, Scott Keller and Bill Schaninger, the evidence shows that

leaders can more than double their odds of success—from thirty percent to almost eighty. Whereas the first edition of *Beyond Performance* introduced the authors' "Five Frames of Performance and Health" approach to change management, the fully revised and updated *Beyond Performance 2.0* has been transformed into a truly practical "how to" guide for leaders. Every aspect of how to lead change at scale is covered in a step-by-step manner, always accompanied by practical tools and real-life examples. Keller and Schaninger's work is distinguished in many ways, one of which is the rigor behind the recommendations. The underpinning research is the most comprehensive of its kind—based on over 5 million data points drawn from 2,000 companies globally over a 15-year period. This data is overlaid with the authors' combined more than 40 years of experience in helping companies successfully achieve large-scale change. As senior partners in McKinsey & Company, consistently named the world's most prestigious management consulting firm, Keller and Schaninger also draw on the shared experience of their colleagues from offices in over 60 countries with unrivaled access to CEOs and senior teams. *Beyond Performance 2.0* also dares to go against the grain—eschewing the notion of copying best practices and instead guiding leaders to make choices specific to their unique context and organization. It does this with meticulously balance of focus on short- and long-term considerations, and on fully addressing the hard technical and oft cultural elements of making change happen. Further, the approach doesn't just focus on delivering change; it builds an organization's muscle to continuously change, making it healthier so that it can act with increased speed and agility to stay perpetually ahead of its competition. Leaders looking for a proven approach to leading large-scale change from a trusted source have found what they are looking for in *Beyond Performance 2.0*.

Learn the fundamental aspects of the business statistics, data mining, and machine learning techniques required to understand the huge amount of data generated by your organization. This book explains practical business analytics through examples, covers the steps involved in using it correctly, and shows you the context in which a particular technique does not make sense. Further, *Practical Business Analytics using R* helps you understand specific issues faced by organizations and how the solutions to these issues can be facilitated by business analytics. This book will discuss and explore the following through examples and case studies: An introduction to R: data management and R functions The architecture, framework, and life cycle of a business analytics project Descriptive analytics using R: descriptive statistics and data cleaning Data mining: classification, association rules, and clustering Predictive analytics: simple regression, multiple regression, and logistic regression This book includes case studies on important business analytic techniques, such as classification, association, clustering, and regression. The R language is the statistical tool used to demonstrate the concepts throughout the book. What You Will Learn • Write R programs to handle data • Build analytical models and draw useful



inferences from them • Discover the basic concepts of data mining and machine learning • Carry out predictive modeling • Define a business issue as an analytical problem Who This Book Is For Beginners who want to understand and learn the fundamentals of analytics using R. Students, managers, executives, strategy and planning professionals, software professionals, and BI/DW professionals.

"Outside-in thinking complements any approach your teams may be taking to the actual implementation of software, but it changes how you measure success. A successful outside-in team does a lot of learning and not much speculation."

—Tom Poppendieck Build Software That Delivers Maximum Business Value to Every Key Stakeholder Imagine your ideal development project. It will deliver exactly what your clients need. It will achieve broad, rapid, enthusiastic adoption. And it will be designed and built by a productive, high-morale team of expert software professionals. Using this book's breakthrough "outside-in" approach to software development, your next project can be that ideal project. In *Outside-in Software Development*, two of IBM's most respected software leaders, Carl Kessler and John Sweitzer, show you how to identify the stakeholders who'll determine your project's real value, shape every decision around their real needs, and deliver software that achieves broad, rapid, enthusiastic adoption. The authors present an end-to-end framework and practical implementation techniques any development team can quickly benefit from, regardless of project type or scope. Using their proven approach, you can improve the effectiveness of every client conversation, define priorities with greater visibility and clarity, and make sure all your code delivers maximum business value. Coverage includes Understanding your stakeholders and the organizational and business context they operate in Clarifying the short- and long-term stakeholder goals your project will satisfy More effectively mapping project expectations to outcomes Building more "consumable" software: systems that are easier to deploy, use, and support Continuously enhancing alignment with stakeholder goals Helping stakeholders manage ongoing change long after you've delivered your product Mastering the leadership techniques needed to drive outside-in development

Now in its third edition, this core textbook provides students with a highly engaging and accessible introduction to the world of PR, covering diverse topics such as event planning, press releases, crisis management, ethics, managing your own PR agency and how to use social media effectively. The author draws on over 25 years of hands-on experience as a PR practitioner and lecturer to provide cutting-edge and insightful examples and debates relating to key contemporary issues, from Twitter-storms and whistleblowing, to the Ebola crisis and media relations in the White House. With information drawn from a wide range of international experts, the book offers case studies that cross continents and cover small, local and large multinational organisations, resulting in a truly global perspective. This new third edition has been comprehensively revised and updated throughout, equipping readers with the practical skills they need to

succeed as a PR professional in the twenty-first century. *Public Relations: A Practical Guide* is a must-have companion for all those studying practitioner courses on Public Relations taught and accredited by PR professional organisations. It will be also be an essential textbook for undergraduate and postgraduate students studying introductory Public Relations modules at universities.

This book emphasizes the fundamental surgical, medical and related procedures involved in each stage of burn care, thus enabling the reader to focus on the essentials, and ensure the best outcome for patients. Chapters range from burn physiology, initial care and resuscitation, to wound evaluation and surgical management, respiratory and critical care, rehabilitation, reconstruction and aftercare. The book's concise visual approach will appeal to all professionals caring for burn patients in acute or recovery phases.

This reference book provides a fully integrated novel approach to the development of high-power, single-transverse mode, edge-emitting diode lasers by addressing the complementary topics of device engineering, reliability engineering and device diagnostics in the same book, and thus closes the gap in the current book literature. Diode laser fundamentals are discussed, followed by an elaborate discussion of problem-oriented design guidelines and techniques, and by a systematic treatment of the origins of laser degradation and a thorough exploration of the engineering means to enhance the optical strength of the laser. Stability criteria of critical laser characteristics and key laser robustness factors are discussed along with clear design considerations in the context of reliability engineering approaches and models, and typical programs for reliability tests and laser product qualifications. Novel, advanced diagnostic methods are reviewed to discuss, for the first time in detail in book literature, performance- and reliability-impacting factors such as temperature, stress and material instabilities. Further key features include: practical design guidelines that consider also reliability related effects, key laser robustness factors, basic laser fabrication and packaging issues; detailed discussion of diagnostic investigations of diode lasers, the fundamentals of the applied approaches and techniques, many of them pioneered by the author to be fit-for-purpose and novel in the application; systematic insight into laser degradation modes such as catastrophic optical damage, and a wide range of technologies to increase the optical strength of diode lasers; coverage of basic concepts and techniques of laser reliability engineering with details on a standard commercial high power laser reliability test program. *Semiconductor Laser Engineering, Reliability and Diagnostics* reflects the extensive expertise of the author in the diode laser field both as a top scientific researcher as well as a key developer of high-power highly reliable devices. With invaluable practical advice, this new reference book is suited to practising researchers in diode laser technologies, and to postgraduate engineering students. Dr. Peter W. Epperlein is Technology Consultant with his own semiconductor technology consulting business Pwe-PhotonicsElectronics-IssueResolution in the UK. He looks back at a thirty years career in cutting edge photonics and electronics industries with focus on emerging technologies, both in global and start-up companies, including IBM, Hewlett-Packard, Agilent Technologies, Philips/NXP, Essient Photonics and IBM/JDSU Laser Enterprise. He holds Pre-Dipl.

(B.Sc.), Dipl. Phys. (M.Sc.) and Dr. rer. nat. (Ph.D.) degrees in physics, magna cum laude, from the University of Stuttgart, Germany. Dr. Epperlein is an internationally recognized expert in compound semiconductor and diode laser technologies. He has accomplished R&D in many device areas such as semiconductor lasers, LEDs, optical modulators, quantum well devices, resonant tunneling devices, FETs, and superconducting tunnel junctions and integrated circuits. His pioneering work on sophisticated diagnostic research has led to many world's first reports and has been adopted by other researchers in academia and industry. He authored more than seventy peer-reviewed journal papers, published more than ten invention disclosures in the IBM Technical Disclosure Bulletin, has served as reviewer of numerous proposals for publication in technical journals, and has won five IBM Research Division Awards. His key achievements include the design and fabrication of high-power, highly reliable, single mode diode lasers. Book Reviews "Semiconductor L

The overwhelming data produced everyday and the increasing performance and cost requirements of applications are transversal to a wide range of activities in society, from science to industry. In particular, the magnitude and complexity of the tasks that Machine Learning (ML) algorithms have to solve are driving the need to devise adaptive many-core machines that scale well with the volume of data, or in other words, can handle Big Data. This book gives a concise view on how to extend the applicability of well-known ML algorithms in Graphics Processing Unit (GPU) with data scalability in mind. It presents a series of new techniques to enhance, scale and distribute data in a Big Learning framework. It is not intended to be a comprehensive survey of the state of the art of the whole field of machine learning for Big Data. Its purpose is less ambitious and more practical: to explain and illustrate existing and novel GPU-based ML algorithms, not viewed as a universal solution for the Big Data challenges but rather as part of the answer, which may require the use of different strategies coupled together. Presents a guide to maintaining health and physical fitness, providing advice on nutrition, healthy eating, exercise, and preventive measures against disease.

This book reflects the dramatic increase in the number of Raman spectrometers being sold to and used by non-expert practitioners. It contains coverage of Resonance Raman and SERS, two hot areas of Raman, in a form suitable for the non-expert. Builds Raman theory up in stages without overloading the reader with complex theory Includes two chapters on instrumentation and interpretation that shows how Raman spectra can be obtained and interpreted Explains the potential of using Raman spectroscopy in a wide variety of applications Includes detailed, but concise information and worked examples

This book offers policy makers a hands-on approach, tested in the World Bank's field work in many countries, for developing policies that improve access to safe, effective medicines in health systems of low- and middle-income economies.

In seven chapters, Dr. Gerson addresses the most troubling issues related to performance including the difference between positive and negative performance motivation, the characteristics of high performers, the role of proper goal and objective setting, planning for high performance, eliminating self-limiting beliefs, and making incentives real.

This practical, applications-oriented book describes essential tools for efficiently handling massive amounts of data.

Introductory, theory-practice balanced text teaching the fundamentals of databases to advanced undergraduates or graduate students in information systems or computer science.

Management of High-Risk Pregnancy: A Practical Approach, Second Edition is the new edition of this comprehensive guide to a broad range of risks in pregnancy. Topics in Management of High-Risk Pregnancy: A Practical Approach, Second Edition, are illustrated by high quality clinical photographs. The most up-to-date information in the field, including various clinical guidelines and Cochrane database meta-analysis, is incorporated into each chapter, making this an essential resource for residents and practising obstetricians and gynaecologists.

Automation systems, often referred to as SCADA systems, involve programming at several levels; these systems include computer type field controllers that monitor and control plant equipment such as conveyor systems, pumps, and user workstations that allow the user to monitor and control the equipment through color graphic displays. All of the components of these systems are integrated through a network, such as Ethernet for fast communications. This book provides a practical guide to developing the application software for all aspects of the automation system, from the field controllers to the user interface workstations. The focus of the book is to not only provide practical methods for designing and developing the software, but also to develop a complete set of software documentation. Providing tested examples and proceducre, this book will be indispensible to all engineers managing automation systems. Clear instructions with real-world examples  
Guidance on how to design and develop well-structured application programs  
Identification of software documentation requirements and organization of point names with logical naming system  
Guidance on best practice of standardized programming methods for SCADA systems

Today, even the largest development organizations are turning to agile methodologies, seeking major productivity and quality improvements. However, large-scale agile development is difficult, and publicly available case studies have been scarce. Now, three agile pioneers at Hewlett-Packard present a candid, start-to-finish insider's look at how they've succeeded with agile in one of the company's most mission-critical software environments: firmware for HP LaserJet printers. This book tells the story of an extraordinary experiment and journey. Could agile principles be applied to re-architect an enormous legacy code base? Could agile enable both timely delivery and ongoing innovation? Could it really be applied to 400+ developers distributed across four states, three continents, and four business units? Could it go beyond delivering incremental gains, to meet the stretch goal of 10x developer productivity improvements? It could, and it did—but getting there was not easy. Writing for both managers and technologists, the authors candidly discuss both their successes and failures, presenting actionable lessons for other development organizations, as well as approaches that have proven themselves repeatedly in HP's challenging



environment. They not only illuminate the potential benefits of agile in large-scale development, they also systematically show how these benefits can actually be achieved. Coverage includes:

- Tightly linking agile methods and enterprise architecture with business objectives
- Focusing agile practices on your worst development pain points to get the most bang for your buck
- Abandoning classic agile methods that don't work at the largest scale
- Employing agile methods to establish a new architecture
- Using metrics as a "conversation starter" around agile process improvements
- Leveraging continuous integration and quality systems to reduce costs, accelerate schedules, and automate the delivery pipeline
- Taming the planning beast with "light-touch" agile planning and lightweight long-range forecasting
- Implementing effective project management and ensuring accountability in large agile projects
- Managing tradeoffs associated with key decisions about organizational structure
- Overcoming U.S./India cultural differences that can complicate offshore development
- Selecting tools to support quantum leaps in productivity in your organization
- Using change management disciplines to support greater enterprise agility

Leading the Transformation is executive guide, providing a clear framework for improving development and delivery. Instead of the traditional Agile and DevOps approaches that focus on improving the effectiveness of teams, this book targets the coordination of work across teams in large organizations—an improvement that executives are uniquely positioned to lead.

Recognizing that complexity calls for innovative, conceptual, and methodological solutions, *Dealing with Complexity in Development Evaluation* by Michael Bamberger, Jos Vaessen, and Estelle Raimondo offers practical guidance to policymakers, managers, and evaluation practitioners on how to design and implement complexity-responsive evaluations that can be undertaken in the real world of time, budget, data, and political constraints. Introductory chapters present comprehensive, non-technical overviews of the most common evaluation tools and methodologies, and additional content addresses more cutting-edge material. The book also includes six case study chapters to illustrate examples of various evaluation contexts from around the world.

A hands-on guide to the fast and ever-changing world of high-frequency, algorithmic trading. Financial markets are undergoing rapid innovation due to the continuing proliferation of computer power and algorithms. These developments have created a new investment discipline called high-frequency trading. This book covers all aspects of high-frequency trading, from the business case and formulation of ideas through the development of trading systems to application of capital and subsequent performance evaluation. It also includes numerous quantitative trading strategies, with market microstructure, event arbitrage, and deviations arbitrage discussed in great detail. Contains the tools and techniques needed for building a high-frequency trading system. Details the post-trade analysis process, including key performance benchmarks and trade quality evaluation. Written by well-known industry professional Irene Aldridge. Interest in

high-frequency trading has exploded over the past year. This book has what you need to gain a better understanding of how it works and what it takes to apply this approach to your trading endeavors.

A Practical Approach to Large-Scale Agile Development How HP Transformed LaserJet FutureSmart Firmware Addison-Wesley

In the last 20 years cell culture has developed enormously from being used only in specialized areas of research to being the cornerstone of probably the world's fastest-growing industry, biotechnology. The primary aim of this book is to guide the newcomer progressively through all those areas which nowadays are fundamental to the performance of cell culture. The book will also prove useful to the experienced worker. Topics covered include setting up and equipping a cell culture laboratory, sterilization of fluids and equipment, culture media, culture technique, the maintenance of cell lines, primary culture and the isolation of new cell lines, specific cell types and their requirements, single cell cloning, quality control of cell lines and the prevention, detection, and cure of contamination, and good laboratory practice in the cell culture laboratory.

Today, even the largest development organizations are turning to agile methodologies, seeking major productivity and quality improvements. However, large-scale agile development is difficult, and publicly available case studies have been scarce. Now, three agile pioneers at Hewlett-Packard present a candid, start-to-finish insider's look at how they've succeeded with agile in one of the company's most mission-critical software environments: firmware for HP LaserJet printers. This book tells the story of an extraordinary experiment and journey. Could agile principles be applied to re-architect an enormous legacy code base? Could agile enable both timely delivery and ongoing innovation? Could it really be applied to 400+ developers distributed across four states, three continents, and four business units? Could it go beyond delivering incremental gains, to meet the stretch goal of 10x developer productivity improvements? It could, and it did—but getting there was not easy. Writing for both managers and technologists, the authors candidly discuss both their successes and failures, presenting actionable lessons for other development organizations, as well as approaches that have proven themselves repeatedly in HP's challenging environment. They not only illuminate the potential benefits of agile in large-scale development, they also systematically show how these benefits can actually be achieved. Coverage includes:

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- Selecting tools to support quantum leaps in productivity in your organization
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management disciplines to support greater enterprise agility

The book discusses the fundamentals of high-performance computing. The authors combine visualization, comprehensibility, and strictness in their material presentation, and thus influence the reader towards practical application and learning how to solve real computing problems. They address both key approaches to programming modern computing systems: multithreading-based parallelizing in shared memory systems, and applying message-passing technologies in distributed systems. The book is suitable for undergraduate and graduate students, and for researchers and practitioners engaged with high-performance computing systems. Each chapter begins with a theoretical part, where the relevant terminology is introduced along with the basic theoretical results and methods of parallel programming, and concludes with a list of test questions and problems of varying difficulty. The authors include many solutions and hints, and often sample code.

Industry and commerce use vast amounts of water and in some parts of the world water is becoming a scarce commodity. We need to take more care in our future use of water, and this book is a 'best practice' manual for industrial and commercial users world-wide. It offers a practical account of the measures which can be taken to re-educate industrial and commercial users in the techniques of water saving and re-use anywhere in the world. The principles are covered in detail and supported by examples from specific industries and commercial operations. Author Mohan Seneviratne is Manager of Sydney Water's 'Every Drop Counts Business Program', which won the prestigious 2006 Stockholm Industry Water Award in recognition of how the utility is working in partnership with business, industry and government to help ensure the long-term sustainability of Sydney's water supply. \* The first book to cover water conservation for industrial users from processing plants to pubs and clubs \* Provides practical advice on implementing water conservation for users in various industry sectors \* Written by a practicing water conservation consultant

Designing Software Architectures will teach you how to design any software architecture in a systematic, predictable, repeatable, and cost-effective way. This book introduces a practical methodology for architecture design that any professional software engineer can use, provides structured methods supported by reusable chunks of design knowledge, and includes rich case studies that demonstrate how to use the methods. Using realistic examples, you'll master the powerful new version of the proven Attribute-Driven Design (ADD) 3.0 method and will learn how to use it to address key drivers, including quality attributes, such as modifiability, usability, and availability, along with functional requirements and architectural concerns. Drawing on their extensive experience, Humberto Cervantes and Rick Kazman guide you through crafting practical designs that support the full software life cycle, from requirements to maintenance and evolution. You'll learn how to successfully integrate design in your organizational context, and how to design systems that will be built with agile methods. Comprehensive coverage includes Understanding what architecture design involves, and where it fits in the full software development life cycle Mastering core design concepts, principles, and processes Understanding how to perform the steps of the ADD method Scaling design and analysis up or down, including design for pre-sale processes or lightweight architecture reviews Recognizing and optimizing critical relationships between analysis and design Utilizing proven, reusable design primitives

and adapting them to specific problems and contexts Solving design problems in new domains, such as cloud, mobile, or big data

Now in its 3rd Edition, Industrial Catalysis offers all relevant information on catalytic processes in industry, including many recent examples. Perfectly suited for self-study, it is the ideal companion for scientists who want to get into the field or refresh existing knowledge. The updated edition covers the full range of industrial aspects, from catalyst development and testing to process examples and catalyst recycling. The book is characterized by its practical relevance, expressed by a selection of over 40 examples of catalytic processes in industry. In addition, new chapters on catalytic processes with renewable materials and polymerization catalysis have been included. Existing chapters have been carefully revised and supported by new subchapters, for example, on metathesis reactions, refinery processes, petrochemistry and new reactor concepts. "I found the book accessible, readable and interesting - both as a refresher and as an introduction to new topics - and a convenient first reference on current industrial catalytic processes." Excerpt from a book review for the second edition by P. C. H. Mitchell, Applied Organometallic Chemistry (2007)

The purpose of large-scale software architecture is to capture and describe practical representations to make development teams more effective. In this book the authors show how to utilise software architecture as a tool to guide the development instead of capturing the architectural details after all the design decisions have been made. \* Offers a concise description of UML usage for large-scale architecture \* Discusses software architecture and design principles \* Technology and vendor independent This is a comprehensive guide to Scrum for all (team members, managers, and executives). If you want to use Scrum to develop innovative products and services that delight your customers, this is the complete, single-source reference you've been searching for. This book provides a common understanding of Scrum, a shared vocabulary that can be used in applying it, and practical knowledge for deriving maximum value from it.

A Practical Approach to Trauma: Empowering Interventions provides trauma counselors with effective guidelines that enhance skills and improve expertise in conducting empowering therapeutic interventions. Taking a practitioner's perspective, author Priscilla Dass-Brailsford focuses on practical application and skill building in an effort to understand the impact of extreme stress and violence on the human psyche. provides trauma counselors with effective guidelines that enhance skills and improve expertise in conducting empowering therapeutic interventions. Taking a practitioner's perspective, author Priscilla Dass-Brailsford focuses on practical application and skill building in an effort to understand the impact of extreme stress and violence on the human psyche.

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