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Though traditionally information systems have been centralized, these systems are now distributed over the web. This requires a re-investigation into the way information systems are modeled and designed. Because of this new function, critical problems, including security, never-fail systems, and quality of service have begun to emerge. Novel Approaches to Information Systems Design is an essential publication that explores the most recent, cutting-edge research in information systems and exposes the reader to

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emerging but relatively mature models and techniques in the area. Highlighting a wide range of topics such as big data, business intelligence, and energy efficiency, this publication is ideally designed for managers, administrators, system developers, information system engineers, researchers, academicians, and graduate-level students seeking coverage on critical components of information systems.

This research monograph brings AI to the field of Customer Relationship Management (CRM) to make a customer experience with a product or service smart and enjoyable. AI is here to help customers to get a refund for a canceled flight, unfreeze a banking account or get a health test result. Today, CRM has evolved

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from storing and analyzing customers ' data to predicting and understanding their behavior by putting a CRM system in a customers ' shoes. Hence advanced reasoning with learning from small data, about customers ' attitudes, introspection, reading between the lines of customer communication and explainability need to come into play. Artificial Intelligence for Customer Relationship Management leverages a number of Natural Language Processing (NLP), Machine Learning (ML), simulation and reasoning techniques to enable CRM with intelligence. An effective and robust CRM needs to be able to chat with customers, providing desired information, completing their transactions and resolving their problems. It

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introduces a systematic means of ascertaining a customers ' frame of mind, their intents and attitudes to determine when to provide a thorough answer, a recommendation, an explanation, a proper argument, timely advice and promotion or compensation. The author employs a spectrum of ML methods, from deterministic to statistical to deep, to predict customer behavior and anticipate possible complaints, assuring customer retention efficiently. Providing a forum for the exchange of ideas in AI, this book provides a concise yet comprehensive coverage of methodologies, tools, issues, applications, and future trends for professionals, managers, and researchers in the CRM field together with AI and IT professionals.

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How to use UML to model Enterprise JavaBeans, Swing components, CORBA, and other popular technologies Enterprise Java with UML is the first comprehensive guide on using UML (Unified Modeling Language) to model Java applications. Written by three well-known members of the UML and Java community, the book presents strategies for developing enterprise systems using Java and related technologies -- XML, Servlets, Enterprise JavaBeans, Swing Components, CORBA, RMI, and others. The authors explain how UML is used as a modeling tool for object-oriented computer systems in the real world, break down common situations that development teams encounter, and discuss the tradeoffs of using different technologies in

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different combinations. They also explore different products, looking closely at their strengths and weaknesses. Four in-depth studies complete the presentation, showing readers how to make the right decision for their project through examples of both successes and failures.

Covers the job market, demonstrations, interviews, salary negotiations, resumes, and networking for readers who would like to get involved in the game industry as designers, programmers, artists, or producers.

An MVC Approach to Concepts, Structures, and Models  
Get in the Game!

Guide to Efficient Software Design

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Software Engineering

Andrew Rollings and Ernest Adams on Game Design

Information Technology in the Service Economy:

Pro Flex on Spring

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

**EBOOK: OBJECT-ORIENTED SOFTWARE**

This expanded and updated edition of "Practical Enterprise Software Development Techniques" includes a new chapter which explains what makes enterprise scale software development different from other development

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endeavors. Chapter 4 has been expanded with additional coverage of code review, bug tracker systems and agile software applications. The chapter order has been changed in response to feedback from readers and instructors who have taught classes using the previous version (which was also published by Apress). This book provides an overview of tools and techniques used in enterprise software development, many of which are not taught in academic programs or learned on the job. This is an ideal resource containing lots of practical information and code examples that you need to master as a member of an enterprise development team. This book aggregates many



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of these "on the job" tools and techniques into a concise format and presents them as both discussion topics and with code examples. The reader will not only get an overview of these tools and techniques, but also several discussions concerning operational aspects of enterprise software development and how it differs from smaller development efforts. For example, in the chapter on Design Patterns and Architecture, the author describes the basics of design patterns but only highlights those that are more important in enterprise applications due to separation of duties, enterprise security, etc. The architecture discussion revolves has a similar emphasis –

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different teams may manage different aspects of the application's components with little or no access to the developer. This aspect of restricted access is also mentioned in the section on logging. Theory of logging and discussions of what to log are briefly mentioned, the configuration of the logging tools is demonstrated along with a discussion of why it's very important in an enterprise environment.

This all-new edition of *Web-Based Training* is filled with practical charts, tables, and checklists that shows you how to design winning training programs for delivering instruction on the Web. Well grounded in the time-tested

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principles of great instructional design and adult education, Web-Based Training takes a step back from the whirlwind of technical guides and offers a extensively-researched handbook. For everyone seeking to learn more about the subject, Driscoll gives you illustrative examples from a wide range of organizations large and small. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

EDBT 2002 Workshops XMLDM, MDDE, and YRWS, Prague, Czech Republic, March 24-28, 2002, Revised Papers

Keeping Customers Informed

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Scaling BPM Adoption: From Project to Program with IBM Business Process Manager

Extreme Scalability at Your Fingertips

Dedicated to Professor Boris Kovalerchuk on his Anniversary

FM'99 - Formal Methods

Web Technology & Design

The importance of Software Engineering is well known in various engineering fields. Overwhelming response to my books on various subjects inspired me to write this book. The book is structured to cover the key aspects of the subject Software Engineering. This book provides logical method of explaining various complicated concepts and stepwise

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methods to explain the important topics. Each chapter is well supported with necessary illustrations, practical examples and solved problems. All the chapters in the book are arranged in a proper sequence that permits each topic to build upon earlier studies. All care has been taken to make students comfortable in understanding the basic concepts of the student. Some of the books cover the topics in great depth and detail while others cover only the most important topics. Obviously no single book on this subject can meet everyone ' s needs, but many lie to either end of spectrum to be really helpful. At the low end there are the superficial ones that leave the readers confused or unsatisfied. Those at the high end cover the subject with such thoroughness as to be overwhelming. The present edition is primarily intended to

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serve the need to students preparing for B. Tech, M. Tech and MCA courses. This book is an outgrowth of our teaching experience. In our academic interaction with teachers and students, we found that they face considerable difficulties in using the available books in this growing academic discipline. The authors simply presented the subjects matter in their own style and make the subject easier by giving a number of questions and summary given at the end of the chapter. This innovative book uncovers all the steps readers should follow in order to build successful software and systems With the help of numerous examples, Albin clearly shows how to incorporate Java, XML, SOAP, ebXML, and BizTalk when designing true distributed business systems Teaches how to easily integrate design patterns into software design

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Documents all architectures in UML and presents code in either Java or C++

Software -- Software Engineering.

This book represents the compilation of papers presented at the IFIP Working Group 8. 2 conference entitled “ Information Technology in the Service Economy: Challenges and Possibilities for the 21 Century. ” The conference took place at Ryerson University, Toronto, Canada, on August 10-13, 2008. Participation in the conference spanned the continents from Asia to Europe with paper submissions global in focus as well. Conference submissions included completed research papers and research in progress reports. Papers submitted to the conference went through a double blind review process in which the program co chairs, an associate

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editor, and reviewers provided assessments and recommendations. The editorial efforts of the associate editors and reviewers in this process were outstanding. To foster high quality research publications in this field of study, authors of accepted papers were then invited to revise and resubmit their work. Through this rigorous review and revision process, 12 completed research papers and 11 research in progress reports were accepted for presentation and publication. Paper workshop sessions were also established to provide authors of emergent work an opportunity to receive feedback from the IFIP 8.2 community. Abstracts of these new projects are included in this volume. Four panels were presented at the conference to provide discussion forums for the varied aspects of IT, service, and globalization. Panel



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abstracts are also included here.

10th International Conference, AMAST 2004, Stirling, Scotland, UK, July 12-16, 2004, Proceedings  
Digital Libraries

Documenting Software Architectures

XML-Based Data Management and Multimedia Engineering -  
EDBT 2002 Workshops

Federal Bureau of Investigation's Information Technology  
Modernization Program, Trilogy

Design Methods and Techniques

An updated edition of the classic guide to  
technical communication Consider that 20 to  
50 percent of a technology professional's

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time is spent communicating with others. Whether writing a memo, preparing a set of procedures, or making an oral presentation, effective communication is vital to your professional success. This anthology delivers concrete advice from the foremost experts on how to communicate more effectively in the workplace. The revised and expanded second edition of this popular book completely updates the original, providing authoritative guidance on communicating via modern technology in the contemporary work environment. Two new sections on global communication and the Internet address

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communicating effectively in the context of increased e-mail and web usage. As in the original, David Beer's Second Edition discusses a variety of approaches, such as: \*

- \* Writing technical documents that are clear and effective
- \* Giving oral presentations more confidently
- \* Using graphics and other visual aids judiciously
- \* Holding productive meetings
- \* Becoming an effective listener

The new edition also includes updated articles on working with others to get results and on giving directions that work. Each article is aimed specifically at the needs of engineers and others in the technology professions, and

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is written by a practicing engineer or a technical communicator. Technical engineers, IEEE society members, and technical writing teachers will find this updated edition of David Beer's classic *Writing and Speaking in the Technology Professions* an invaluable guide to successful communication.

If you love Essbase and hate seeing it misused, then this is the book for you.

Written by 12 Essbase professionals that are either acknowledged Essbase gurus or certified Oracle ACEs, *Developing Essbase Applications: Advanced Techniques for Finance and IT Professionals* provides an unparalleled

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investigation and explanation of Essbase theory and best practices. Detailing the hows and the whys of successful Essbase implementation, the book arms you with simple yet powerful tools to meet your immediate needs, as well as the theoretical knowledge to proceed to the next level with Essbase. Infrastructure, data sourcing and transformation, database design, calculations, automation, APIs, reporting, and project implementation are covered by subject matter experts who work with the tools and techniques on a daily basis. In addition to practical cases that illustrate

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valuable lessons learned, the book offers:

- Undocumented Secrets—Dan Pressman describes the previously unpublished and undocumented inner workings of the ASO Essbase engine.
- Authoritative Experts—If you have questions that no one else can solve, these 12 Essbase professionals are the ones who can answer them.
- Unpublished—Includes the only third-party guide to infrastructure. Infrastructure is easy to get wrong and can doom any Essbase project.
- Comprehensive—Let there never again be a question on how to create blocks or design BSO databases for performance—Dave Farnsworth provides the answers within.

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Innovative—Cameron Lackpour and Joe Aultman bring new and exciting solutions to persistent Essbase problems. With a list of contributors as impressive as the program of presenters at a leading Essbase conference, this book offers unprecedented access to the insights and experiences of those at the forefront of the field. The previously unpublished material presented in these pages will give you the practical knowledge needed to use this powerful and intuitive tool to build highly useful analytical models, reporting systems, and forecasting applications.

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Presents an illustrated A-Z encyclopedia containing approximately 600 entries on computer and technology related topics. This Book Deals With All The Technologies Used In The Design Of Services Over The Web. It Begins With The Principles And Concepts Used In Internet And Worldwide Web. Html Is Explained In Two Chapters. Since Frames And Forms Are Vital Components In Interactive Web Pages, A Separate Chapter Is Dedicated With Several Examples. Javascript, The Popular Scripting Language Used In Client Side Data Validation Is Then Explained With Adequate Object Oriented Style. The Server Side Code



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Is Explained With Jsp.The Whole Of Jsp Is Explained And Illustrated Using Several Examples. Jsp Is Used With Jdbc For Accessing Databases. Java Database Connectivity Is Given Due Importance And Simple Web Applications Have Been Developed. Java Servlet Is Fully Explained With Several Examples. Four Minor Projects On Design And Application Are Given In The Last Four Chapters. These Projects Are Fully Explained According To The Software Development Life Cycle. The Complete Set Of Design Documents, Code And Testing Strategies Are Explained. This Book Will Serve As A Complete Textbook

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For Various Graduate And Postgraduate Courses.

Algebraic Methodology and Software Technology

Getting Started with CouchDB

Writing and Speaking in the Technology

Professions

The Art of Software Architecture

Web-Based Training

Developing Essbase Applications

Philosophies, Technical Design

Considerations, and Example Scenarios

**This classroom-tested textbook presents an active-learning approach to the**

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foundational concepts of software design. These concepts are then applied to a case study, and reinforced through practice exercises, with the option to follow either a structured design or object-oriented design paradigm. The text applies an incremental and iterative software development approach, emphasizing the use of design characteristics and modeling techniques as a way to represent higher levels of design abstraction, and promoting the model-view-controller (MVC) architecture. Topics and features:

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provides a case study to illustrate the various concepts discussed throughout the book, offering an in-depth look at the pros and cons of different software designs; includes discussion questions and hands-on exercises that extend the case study and apply the concepts to other problem domains; presents a review of program design fundamentals to reinforce understanding of the basic concepts; focuses on a bottom-up approach to describing software design concepts; introduces the characteristics of a good

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software design, emphasizing the model-view-controller as an underlying architectural principle; describes software design from both object-oriented and structured perspectives; examines additional topics on human-computer interaction design, quality assurance, secure design, design patterns, and persistent data storage design; discusses design concepts that may be applied to many types of software development projects; suggests a template for a software design document, and offers ideas

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for further learning. Students of computer science and software engineering will find this textbook to be indispensable for advanced undergraduate courses on programming and software design. Prior background knowledge and experience of programming is required, but familiarity in software design is not assumed.

Learn to design and create video games using the Java programming language and the LibGDX software library. Working through the examples in this book, you will create 12 game prototypes in a

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variety of popular genres, from collection-based and shoot-em-up arcade games to side-scrolling platformers and sword-fighting adventure games. With the flexibility provided by LibGDX, specialized genres such as card games, rhythm games, and visual novels are also covered in this book. Major updates in this edition include chapters covering advanced topics such as alternative sources of user input, procedural content generation, and advanced graphics. Appendices containing examples for game design documentation and

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a complete JavaDoc style listing of the extension classes developed in the book have also been added. What You Will Learn Create 12 complete video game projects Master advanced Java programming concepts, including data structures, encapsulation, inheritance, and algorithms, in the context of game development Gain practical experience with game design topics, including user interface design, gameplay balancing, and randomized content Integrate third-party components into projects, such as particle effects,



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tilemaps, and gamepad controllers Who This Book Is For The target audience has a desire to make video games, and an introductory level knowledge of basic Java programming. In particular, the reader need only be familiar with: variables, conditional statements, loops, and be able to write methods to accomplish simple tasks and classes to store related data. This is the first book covering the use of the Spring Framework and integrating the Flex Framework so that enterprise Java developers can now add a Rich Internet

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Application front end to their "back end." Your first Business Process Management (BPM) project is a crucial first step on your BPM journey. It is important to begin this journey with a philosophy of change that allows you to avoid common pitfalls that lead to failed BPM projects, and ultimately, poor BPM adoption. This IBM® Redbooks® publication describes the methodology and best practices that lead to a successful project and how to use that success to scale to enterprise-wide BPM adoption. This updated edition

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contains a new chapter on planning a BPM project. The intended audience for this book includes all people who participate in the discovery, planning, delivery, deployment, and continuous improvement activities for a business process. These roles include process owners, process participants, subject matter experts (SMEs) from the operational business, and technologists responsible for delivery, including BPM analysts, BPM solution architects, BPM administrators, and BPM developers.

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Developing Web Applications

Practical Enterprise Software Development Techniques

Enterprise Java with UML

From Beginner to Professional

Hearing Before a Subcommittee of the Committee on Appropriations, United States Senate, One Hundred Ninth Congress, First Session, Special Hearing, February 3, 2005, Washington, DC.

Computerworld

Adding Reuse to the System Development Process

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Formal methods are coming of age. Mathematical techniques and tools are now regarded as an important part of the development process in a wide range of industrial and governmental organisations. A transfer of technology into the mainstream of systems development is slowly, but surely, taking place. FM ' 99, the First World Congress on Formal Methods in the Development of Computing Systems, is a result, and a measure, of this new-found maturity. It brings an impressive array of industrial and applications-oriented papers that show how formal methods have been used to tackle real problems. These proceedings are a record of the technical symposium

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of FM '99: alongside the papers describing applications of formal methods, you will find technical reports, papers, and abstracts detailing new advances in formal techniques, from mathematical foundations to practical tools. The World Congress is the successor to the four Formal Methods Europe Symposia, which in turn succeeded the four VDM Europe Symposia. This session reflects an increasing openness within the international community of researchers and practitioners: papers were submitted covering a wide variety of formal methods and application areas. The programme committee reflects the Congress's

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international nature, with a membership of 84 leading researchers from 38 different countries. The committee was divided into 19 tracks, each with its own chair to oversee the reviewing process. Our collective task was a difficult one: there were 259 high-quality submissions from 35 different countries.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT

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media network.

The fastest way to get certified for the exams CX-310-252A and CX-310-027. This volume contains tips, tricks, and hints on all the content included in these tests.

The authors discuss the four main tasks of game design--imagining a game, defining how it works, describing its internal elements, and explaining it to others.

XML and Java

Creating e-Learning Experiences

Uncertainty Modeling



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Java Game Development with LibGDX

Artificial Intelligence for Customer Relationship Management

Views and Beyond

Challenges and Possibilities for the 21st Century

*CD-ROM contains: Ready-to-run sample programs along with trial versions of WebSphere and DB2.*

*Java developers know that design patterns offer powerful productivity benefits but few books have been specific enough to address their programming challenges. With "Java*

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*Design Patterns", there's finally a hands-on guide focused specifically on real-world Java development. The book covers three main categories of design patterns--creational, structural, and behavioral--and the example programs and useful variations can be found on the accompanying CD-ROM.*

*Software architecture—the conceptual glue that holds every phase of a project together for its many stakeholders—is widely recognized as a critical element in modern software development. Practitioners have*

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*increasingly discovered that close attention to a software system's architecture pays valuable dividends. Without an architecture that is appropriate for the problem being solved, a project will stumble along or, most likely, fail. Even with a superb architecture, if that architecture is not well understood or well communicated the project is unlikely to succeed. Documenting Software Architectures, Second Edition, provides the most complete and current guidance, independent of language or notation, on how*

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*to capture an architecture in a commonly understandable form. Drawing on their extensive experience, the authors first help you decide what information to document, and then, with guidelines and examples (in various notations, including UML), show you how to express an architecture so that others can successfully build, use, and maintain a system from it. The book features rules for sound documentation, the goals and strategies of documentation, architectural views and styles, documentation for software*

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*interfaces and software behavior, and templates for capturing and organizing information to generate a coherent package. New and improved in this second edition: Coverage of architectural styles such as service-oriented architectures, multi-tier architectures, and data models Guidance for documentation in an Agile development environment Deeper treatment of documentation of rationale, reflecting best industrial practices Improved templates, reflecting years of use and feedback, and*

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*more documentation layout options A new, comprehensive example (available online), featuring documentation of a Web-based service-oriented system Reference guides for three important architecture documentation languages: UML, AADL, and SySML*

*An unparalleled overview of current design considerations for your digital library! Digital Libraries: Philosophies, Technical Design Considerations, and Example Scenarios is a balanced overview of public services, collection development, administration, and*

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*systems support, for digital libraries, with advice on adopting the latest technologies that appear on the scene. As a professional in the library and information science field, you will benefit from this special issue that serves as an overview of selected directions, trends, possibilities, limitations, enhancements, design principals, and ongoing projects for integrated library and information systems. In Digital Libraries, you will discover the latest ideas and research on digitizing and distributing online library material, including*

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*information on: organization and administration of new digital library facilities collection development in digital libraries technological infrastructures for seamlessly integrated computer databases over the Internet XML and other new standards for displaying data on the web interface design issues in the search environment object oriented interfaces and improved searching possibilities a brief history of patents on the internet Digital Libraries is a working reference for your digital library-specific*



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*problems. Split into three related sections: Philosophies, Technical Design Considerations, and Example Scenarios, Digital Libraries addresses the many complexities and new issues that have evolved with the development of digital libraries and their future technologies. You will gain a thorough understanding of the public service and design considerations that are necessary to take your digital library into the 21st century.*

*Elements of Reusable Object-Oriented*

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*Software*

*Advanced Techniques for Finance and IT*

*Professionals*

*Modern Approaches, Second Edition*

*Careers in the Game Industry*

*Design Patterns*

*A Practical Guide*

*Tools and Techniques for Large Scale*

*Solutions*

How can we develop a scientific basis for architectural, urban and technical design? When can a design be labelled

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as scientific output, comparable with a scientific report? What are the similarities and dis-similarities between design and empirical research, and between design research, typological research, design study and study by design? Is there a need for a particular methodology for design driven study and research? With these questions in mind, more than forty members of the Faculty of Architecture of the Delft University of Technology

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have described their ways of study and research. Each chapter shows the objectives, the methodology and its implementation in search for a deeper knowledge of design processes and an optimal quality of the design itself.

The authors - among them architects, urban planners, social scientists, lawyers, technicians and information scientists - have widely differing backgrounds. Nevertheless, they share a great deal. The central focus is a

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better understanding of design processes, design tools and the effects of design interventions on issues such as utility, aesthetics meaning, sustainability and feasibility.

Java 2 DeveloperQue Publishing

This new edition is a hands-on guide for developers and administrators who want to use the power and flexibility of Couchbase Server 4.0 in their applications. The second edition extends coverage of N1QL, the SQL-like

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query language for Couchbase. It also brings coverage of multiple new features, including the new generation of client SDKs, security and LDAP integration, secondary indexes, and multi-dimensional scaling. Pro Couchbase Server covers everything you need to develop Couchbase solutions and deploy them in production. The NoSQL movement has fundamentally changed the database world in recent years. Influenced by the growing needs of web-

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scale applications, NoSQL databases such as Couchbase Server provide new approaches to scalability, reliability, and performance. Never have document databases been so powerful and performant. With the power and flexibility of Couchbase Server, you can model your data however you want, and easily change the data model any time you want. Pro Couchbase Server shows what is possible and helps you take full advantage of Couchbase Server

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and all the performance and scalability that it offers. Helps you design and develop a document database using Couchbase Server. Covers the latest features such as the N1QL query language. Gives you the tools to scale out your application as needed.

This book constitutes the refereed proceedings of the 10th International Conference on Algebraic Methodology and Software Technology, AMAST 2004, held in Stirling, Scotland, UK in July 2004.



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The 35 revised full papers presented together with abstracts of 5 invited talks and an invited paper were carefully reviewed and selected from 63 submissions. Among the topics covered are all current issues in formal methods related to algebraic approaches to software engineering including abstract data types, process algebras, algebraic specification, model checking, abstraction, refinement, model checking, state machines,

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rewriting, Kleene algebra, programming logic, etc.

Ways to Study and Research Urban, Architectural and Technical Design

Pro XML Development with Java Technology

Java Design Patterns

Java 2 Developer

World Congress on Formal Methods in the Development of Computing Systems,

Toulouse, France, September 20-24, 1999  
Proceedings

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InfoWorld

Learning Couchbase

Design documents and implement real world e-commerce applications with Couchbase About This Book Get acquainted with Couchbase architecture and design your document-based data schema Implement full text search using industry standard elastic search plugins Develop critical and high performance applications using this hands-on tutorial guide Who This Book Is For If you are new to the NoSQL document system or have little or no experience in NoSQL development and

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administration and are planning to deploy Couchbase for your next project, then this book is for you. It would be helpful to have a bit of familiarity with Java. What You Will Learn Get acquainted with the concept of NoSQL databases and configure your Couchbase database cluster Maintain Couchbase effectively using the web-based administrative console with ease Enable partition capabilities by making use of Buckets Analyze important design considerations for maintaining relationship between various documents Use Couchbase SDK Java API to store and retrieve

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document Write views using map/reduce to retrieve documents efficiently Get familiar with N1QL and how to use it in Java applications Integrate Couchbase with Elasticsearch to implement full text search Configure XDCR for disaster recovery and develop ecommerce application using Couchbase In Detail NoSQL database systems have changed application development in terms of adaptability to dynamics schema and scalability. Compared with the currently available NoSQL database systems, Couchbase is the fastest. Its ease of configuration and powerful features for storing different schema

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structures, retrieval using map reduce and inbuilt disaster recovery by replicating document across the geographical region, make it one of the most powerful, scalable and comprehensive NoSQL in the market. Couchbase also introduces smart client API for various programming language to integrate the database with the application easily, yet providing very complex features like cluster health awareness. This book achieves its goal by taking up an end-to-end development structure, right from understanding NOSQL document design to implementing full fledged eCommerce application

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design using Couchbase as a backend. Starting with the architecture of Couchbase to get you up and running, this book quickly takes you through designing a NoSQL document and implementing highly scalable applications using Java API. You will then be introduced to document design and get to know the various ways to administer Couchbase. Followed by this, learn to store documents using bucket. Moving on, you will then learn to store, retrieve and delete documents using smart client base on Java API. You will then retrieve documents using SQL like syntax call N1QL. Next, you will learn

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how to write map reduce base views. Finally, you will configure XDCR for disaster recovery and implement an eCommerce application using Couchbase. Style and approach The book starts from absolute basics and slowly moves to more advanced topics ensuring at every step that all concepts and terms are understood by the reader to have complete understanding at every stage. Technical and complex terms are explained in clear and simple language, thus making this book a perfect companion for those who have started their journey to NoSQL using Couchbase



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McClure takes software reuse beyond "good intentions", by presenting specific reuse techniques that have repeatedly helped companies lower costs and improve quality.

This book commemorates the 65th birthday of Dr. Boris Kovalerchuk, and reflects many of the research areas covered by his work. It focuses on data processing under uncertainty, especially fuzzy data processing, when uncertainty comes from the imprecision of expert opinions. The book includes 17 authoritative contributions by leading experts. XML is the logical choice for a powerful data

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medium transferable across applications and platforms. This book takes a streamlined approach, giving the reader all they need to hit the ground running, without making them trawl through hundreds of pages of syntax. The book is also thoroughly up-to-date, covering the newest XML standards (DOM 3.0, XSLT 2.0, XPath 2.0) and Java tools (including JAXB, Xerces2-j, JAXP, XML Beans, and many more,) and the relevant new features of Java 5 and 6. In short, the book gives readers all they need to master cutting edge XML development with Java.

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A Tutorial

Pro Couchbase Server

Novel Approaches to Information Systems Design

Encyclopedia of Computer Science and Technology

Software Reuse Techniques

**EBOOK: OBJECT-ORIENTED SOFTWARE**

CouchDB is a new breed of database for the Internet, geared to meet the needs of today's dynamic web applications. With this concise introduction, you'll learn how CouchDB's simple model for storing, processing, and accessing data makes it ideal for the type of data and rapid response users now demand from your applications—and how easy CouchDB is to set up, deploy, maintain, and scale. The code-packed examples in this book will help you learn how to work with

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documents, populate a simple database, replicate data from one database to another, and a host of other tasks. Install CouchDB on Linux, Mac OS X, Windows, or (if you must) from the source code. Interact with data through CouchDB's RESTful API, and use standard HTTP operations, such as PUT, GET, POST, and DELETE. Use Futon—CouchDB's web-based interface—to manage databases and documents, and to configure replications. Learn how to create, update, and delete documents in JSON format, and how to create and delete databases. Work with design documents to get the formatting and indexing your application requires.

Today's software engineer must be able to employ more than one kind of software process, ranging from agile methodologies to the waterfall process, from highly integrated tool suites to refactoring and loosely coupled tool sets. Braude and Bernstein's thorough

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coverage of software engineering perfects the reader's ability to efficiently create reliable software systems, designed to meet the needs of a variety of customers. Topical highlights . . .

- Process: concentrates on how applications are planned and developed
- Design: teaches software engineering primarily as a requirements-to-design activity
- Programming and agile methods: encourages software engineering as a code-oriented activity
- Theory and principles: focuses on foundations
- Hands-on projects and case studies: utilizes active team or individual project examples to facilitate understanding theory, principles, and practice

In addition to knowledge of the tools and techniques available to software engineers, readers will grasp the ability to interact with customers, participate in multiple software processes, and express requirements clearly in a variety of ways. They will have the ability to create

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designs flexible enough for complex, changing environments, and deliver the proper products.

This volume comprises papers from the following three workshops that were part of the complete program for the International Conference on Extending Database Technology (EDBT) held in Prague, Czech Republic, in March 2002: XML-Based Data Management (XMLDM) Second International Workshop on Multimedia Data and Document Engineering (MDDE) Young Researchers Workshop (YRWS) Together, the three workshops featured 48 high-quality papers selected from approximately 130 submissions. It was, therefore, difficult to decide on the papers that were to be accepted for presentation. We believe that the accepted papers substantially contribute to their particular fields of research. The workshops were an excellent basis for intense and highly

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fruitful discussions. The quality and quantity of papers show that the areas of interest for the workshops are highly active. A large number of excellent researchers are working in relevant fields producing research output that is not only of interest to other researchers but also for industry. The organizers and participants of the workshops were highly satisfied with the output. The high quality of the presenters and workshop participants contributed to the success of each workshop. The amazing environment of Prague and the location of the EDBT conference also contributed to the overall success. Last, but not least, our sincere thanks to the conference organizers – the organizing team was always willing to help and if there were things that did not work, assistance was quickly available.