

# Berkeley Db Java Edition License

The Cathedral & the Bazaar  
NoSQL For Dummies  
Berkeley DB  
Oracle Data Guard 11gR2 Administration  
Beginner's Guide  
Software Development  
Database Design and Implementation  
500 Lines Or Less  
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Open Innovation  
Handbook of Open Source Tools  
Introduction to Embedded Systems - A Cyber Physical Systems Approach - Second Edition  
Structure and Interpretation of Computer Programs - 2nd Edition  
Understanding Open Source and Free Software Licensing  
Processing XML Documents with Oracle JDeveloper 11g

## **The Cathedral & the Bazaar**

## **NoSQL For Dummies**

## **Berkeley DB**

This book strives to identify and introduce the durable intellectual ideas of embedded systems as a technology and as a subject of study. The emphasis is on modeling, design, and analysis of cyber-physical systems, which integrate computing, networking, and physical processes.

## **Oracle Data Guard 11gR2 Administration Beginner's Guide**

From operating systems to the cloud, Oracle's products and services are everywhere, and it has the market share to prove it. Given the share diversity of the Oracle product line, and the level of complexity of integration, management can be quite a daunting task. The CIO's Guide to Oracle Products and Solutions is the go-to guide for all things Oracle. It provides management-level guidance on how to successfully navigate and manage the full range of Oracle products. The book presents management best practices and user/developer lessons learned in the use of Oracle products and services. Supplying both conceptual and technical views, the text focuses on what CIOs need to do to orient, or reorient, their organization toward the use of Oracle products and

services. It describes how to develop a strategic framework for the use of these products and services rather than the specific product or service itself. This strategic framework will help you to prepare, educate, keep up with change, mitigate risk, and implement with the confidence needed to succeed. Providing an overview of the suite of Oracle technologies and solutions, the book covers the heart of the Oracle products set, including Oracle analytics, enterprise performance management, Oracle cloud, data management, application development, social business, and fusion. It examines compliance and security issues and includes metrics to help you evaluate potential solutions. The book also provides readers with access to a set of helpful resources on the book's page at [www.crcpress.com](http://www.crcpress.com), including cloud procurement best practices, cloud migration tips, a sample project procurement plan template, and various glossaries.

## **Software Development**

As we pointed out in *The Architecture of Open Source Applications*, architects look at thousands of buildings during their training, and study the critiques of many more. But most software developers only ever get to know a handful of programs well - usually programs they wrote themselves. This book provides you with the chance to study how 26 experienced programmers think when they are building something new. The programs you will read about in this book were all written from scratch to solve difficult problems. A web server, a pedometer, a Python

interpreter, a web-based spreadsheet, and many more applications are written, in 500 lines of code or less, and described by their creators so that you can learn from their insights and their mistakes.

### **Database Design and Implementation**

Using real-world examples and hands-on tasks, Oracle Data Guard 11gR2 Administration Beginner's Guide will give you a solid foundation in Oracle Data Guard. It has been designed to teach you everything you need to know to successfully create and operate Data Guard environments with maximum flexibility, compatibility, and effectiveness. If you are an Oracle database administrator who wants to configure and administer Data Guard configurations, then "Oracle Data Guard 11gR2 Administration Beginner's Guide" is for you. With a basic understanding of Oracle database administration, you'll be able to easily follow the book.

### **500 Lines Or Less**

Structure and Interpretation of Computer Programs by Harold Abelson and Gerald Jay Sussman is licensed under a Creative Commons Attribution-NonCommercial 3.0 License.

### **Oracle Essentials**

This important work offers the most comprehensive and up-to-date account of the Orthodox Church available, providing a detailed account of its historical

development, as well as exploring Orthodox theology and culture Written by one of the leading Orthodox historians and theologians in the English-speaking world Offers an in-depth engagement with the issues surrounding Orthodoxy's relationship to the modern world, including political, cultural and ethical debates Considers the belief tradition, spirituality, liturgical diversity, and Biblical heritage of the Eastern Churches; their endurance of oppressions and totalitarianisms; and their contemporary need to rediscover their voice and confidence in a new world-order Recipient of a CHOICE Outstanding Academic Title for 2009 award

## **Dr. Dobb's Journal of Software Tools for the Professional Programmer**

We organize things. We organize information, information about things, and information about information. Organizing is a fundamental issue in many professional fields, but these fields have only limited agreement in how they approach problems of organizing and in what they seek as their solutions. The Discipline of Organizing synthesizes insights from library science, information science, computer science, cognitive science, systems analysis, business, and other disciplines to create an Organizing System for understanding organizing. This framework is robust and forward-looking, enabling effective sharing of insights and design patterns between disciplines that weren't possible before. The 4th edition of this award-winning and widely adopted text adds content to bridge between the foundations

of organizing systems and the new statistical and computational techniques of data science because at its core, data science is about how resources are described and organized. The 4th edition reframes descriptive statistics as organizing techniques, expands the treatment of classification to include computational methods, and incorporates many new examples of data-driven resource selection, organization, maintenance, and personalization. The Informatics edition contains all the new content related to data science, but omits the discipline-specific content about library science, museums, and document archives.

### **Managing Projects with GNU Make**

Databases, Types, and the Relational Model: The Third Manifesto is a proposal for the future direction of data and database management systems (DBMSs). It provide a precise, formal definition of an abstract model of data, to be considered as a foundation for the design of a DBMS and a database language.

### **Producing Open Source Software**

Open source provides the competitive advantage in the Internet Age. According to the August Forrester Report, 56 percent of IT managers interviewed at Global 2,500 companies are already using some type of open source software in their infrastructure and another 6 percent will install it in the next two years. This revolutionary model for collaborative software development is being embraced and studied by many

of the biggest players in the high-tech industry, from Sun Microsystems to IBM to Intel. *The Cathedral & the Bazaar* is a must for anyone who cares about the future of the computer industry or the dynamics of the information economy. Already, billions of dollars have been made and lost based on the ideas in this book. Its conclusions will be studied, debated, and implemented for years to come. According to Bob Young, "This is Eric Raymond's great contribution to the success of the open source revolution, to the adoption of Linux-based operating systems, and to the success of open source users and the companies that supply them." The interest in open source software development has grown enormously in the past year. This revised and expanded paperback edition includes new material on open source developments in 1999 and 2000. Raymond's clear and effective writing style accurately describing the benefits of open source software has been key to its success. With major vendors creating acceptance for open source within companies, independent vendors will become the open source story in 2001.

### **Subversion 1.6 Official Guide**

The Hitchhiker's Guide to Python takes the journeyman Pythonista to true expertise. More than any other language, Python was created with the philosophy of simplicity and parsimony. Now 25 years old, Python has become the primary or secondary language (after SQL) for many business users. With popularity comes diversity—and possibly dilution. This guide, collaboratively written by over a hundred

members of the Python community, describes best practices currently used by package and application developers. Unlike other books for this audience, *The Hitchhiker's Guide* is light on reusable code and heavier on design philosophy, directing the reader to excellent sources that already exist.

### **Ajax in Oracle JDeveloper**

This comprehensive reference guide offers useful pointers for advanced use of SQL and describes the bugs and workarounds involved in compiling MySQL for every system.

### **System Design, Modeling, and Simulation Using Ptolemy II**

Written by experienced Oracle insiders, this essential guide distills a vast amount of information into an easy-to-read volume that covers every aspect of the Oracle database. Readers of all technical levels will learn about Oracle's features and technologies, including the product line, architecture, data structures, networking, concurrency, tuning and much more. Augmented with illustrations and helpful hints, the fifth edition of *Oracle Essentials* offers a valuable one-stop overview of Oracle Database 12c, Oracle's newest database release. More comprehensible than huge complete references, and more detailed than most primers, this book gives current Oracle users the conceptual background they need to understand how the Oracle database truly works. For those new to Oracle, this all-in-one guide provides an essential

introduction that will get them up to speed.

## **The Hitchhiker's Guide to Python**

A no-nonsense introduction to software design using the Python programming language. Written for people with no programming experience, this book starts with the most basic concepts and gradually adds new material. Some of the ideas students find most challenging, like recursion and object-oriented programming, are divided into a sequence of smaller steps and introduced over the course of several chapters. The focus is on the programming process, with special emphasis on debugging. The book includes a wide range of exercises, from short examples to substantial projects, so that students have ample opportunity to practise each new concept. Exercise solutions and code examples are available from [thinkpython.com](http://thinkpython.com), along with Swampy, a suite of Python programs that is used in some of the exercises.

## **Python for Software Design**

The latest edition of a popular text and reference on database research, with substantial new material and revision; covers classical literature and recent hot topics. Lessons from database research have been applied in academic fields ranging from bioinformatics to next-generation Internet architecture and in industrial uses including Web-based e-commerce and search engines. The core ideas in the field have become increasingly influential. This text provides

both students and professionals with a grounding in database research and a technical context for understanding recent innovations in the field. The readings included treat the most important issues in the database area--the basic material for any DBMS professional. This fourth edition has been substantially updated and revised, with 21 of the 48 papers new to the edition, four of them published for the first time. Many of the sections have been newly organized, and each section includes a new or substantially revised introduction that discusses the context, motivation, and controversies in a particular area, placing it in the broader perspective of database research. Two introductory articles, never before published, provide an organized, current introduction to basic knowledge of the field; one discusses the history of data models and query languages and the other offers an architectural overview of a database system. The remaining articles range from the classical literature on database research to treatments of current hot topics, including a paper on search engine architecture and a paper on application servers, both written expressly for this edition. The result is a collection of papers that are seminal and also accessible to a reader who has a basic familiarity with database systems.

## **Encyclopedia of Database Technologies and Applications**

High Quality Content by WIKIPEDIA articles! Sleepycat License (sometimes referred to as Berkeley Database License or the Sleepycat Public License) is an OSI-

approved open source license used by Oracle Corporation for the Berkeley DB, Berkeley DB Java Edition and Berkeley DB XML embedded database products. The name of this license is derived from the name of the company which commercially sold the Berkeley DB products, Sleepycat Software, which was acquired by Oracle in 2006. Oracle continues to use the name "Sleepycat License" despite not using the term "Sleepycat" in any other documentation.

### **The Discipline of Organizing: Informatics Edition**

This updated reference offers a clear description of make, a central engine in many programming projects that simplifies the process of re-linking a program after re-compiling source files. Original. (Intermediate)

### **Think Data Structures**

Written by Oracle insiders, this indispensable guide distills an enormous amount of information about the Oracle Database into one compact volume. Ideal for novice and experienced DBAs, developers, managers, and users, Oracle Essentials walks you through technologies and features in Oracle's product line, including its architecture, data structures, networking, concurrency, and tuning. Complete with illustrations and helpful hints, this fifth edition provides a valuable one-stop overview of Oracle Database 12c, including an introduction to Oracle and cloud computing. Oracle Essentials provides the conceptual background you

need to understand how Oracle truly works. Topics include: A complete overview of Oracle databases and data stores, and Fusion Middleware products and features Core concepts and structures in Oracle's architecture, including pluggable databases Oracle objects and the various datatypes Oracle supports System and database management, including Oracle Enterprise Manager 12c Security options, basic auditing capabilities, and options for meeting compliance needs Performance characteristics of disk, memory, and CPU tuning Basic principles of multiuser concurrency Oracle's online transaction processing (OLTP) Data warehouses, Big Data, and Oracle's business intelligence tools Backup and recovery, and high availability and failover solutions

### **The Berkeley DB Book**

The Encyclopedia of Database Technologies and Applications is a wide-ranging collection of a diverse coverage of topics related to database concepts, technologies, and applications. This encyclopedia provides an overview of the state-of-the-art of classical subjects. It has contributions from over 175 international researchers from 33 countries, and includes more than 970 terms and definitions and over 2,400 references, This encyclopedia also delivers clear and concise explanations of emerging issues and technologies such as multimedia database systems, data warehousing and mining, geospatial and temporal databases, and data reverse engineering. The Encyclopedia of Database Technologies and Applications is a single reference

source for any library on the topic of database technologies and applications.

### **Free Software, Free Society**

Currently used at many colleges, universities, and high schools, this hands-on introduction to computer science is ideal for people with little or no programming experience. The goal of this concise book is not just to teach you Java, but to help you think like a computer scientist. You'll learn how to program—a useful skill by itself—but you'll also discover how to use programming as a means to an end. Authors Allen Downey and Chris Mayfield start with the most basic concepts and gradually move into topics that are more complex, such as recursion and object-oriented programming. Each brief chapter covers the material for one week of a college course and includes exercises to help you practice what you've learned. Learn one concept at a time: tackle complex topics in a series of small steps with examples Understand how to formulate problems, think creatively about solutions, and write programs clearly and accurately Determine which development techniques work best for you, and practice the important skill of debugging Learn relationships among input and output, decisions and loops, classes and methods, strings and arrays Work on exercises involving word games, graphics, puzzles, and playing cards The updated second edition of Think Java also features new chapters on polymorphism and data processing, as well as content covering changes through Java 12.

## **MySQL Reference Manual**

In this book, you will find discussions on the newest native XML databases, along with information on working with XML-enabled relational database systems. In addition, XML Data Management thoroughly examines benchmarks and analysis techniques for performance of XML databases. This book is best used by students that are knowledgeable in database technology and are familiar with XML.

## **Sleepycat License**

Essay Collection covering the point where software, law and social justice meet.

## **Dr. Dobb's Journal**

The Official Berkeley DB Documentation from the creators, Sleepycat Software!

## **The Rise of Open Source Licensing**

## **Oracle Essentials**

Create, validate, and transform XML documents with Oracle's JDeveloper IDE using this book and eBook.

## **Open Sources**

Freely available source code, with contributions from thousands of programmers around the world: this is

the spirit of the software revolution known as Open Source. Open Source has grabbed the computer industry's attention. Netscape has opened the source code to Mozilla; IBM supports Apache; major database vendors have ported their products to Linux. As enterprises realize the power of the open-source development model, Open Source is becoming a viable mainstream alternative to commercial software. Now in Open Sources, leaders of Open Source come together for the first time to discuss the new vision of the software industry they have created. The essays in this volume offer insight into how the Open Source movement works, why it succeeds, and where it is going. For programmers who have labored on open-source projects, Open Sources is the new gospel: a powerful vision from the movement's spiritual leaders. For businesses integrating open-source software into their enterprise, Open Sources reveals the mysteries of how open development builds better software, and how businesses can leverage freely available software for a competitive business advantage. The contributors here have been the leaders in the open-source arena: Brian Behlendorf (Apache) Kirk McKusick (Berkeley Unix) Tim O'Reilly (Publisher, O'Reilly & Associates) Bruce Perens (Debian Project, Open Source Initiative) Tom Paquin and Jim Hamerly (mozilla.org, Netscape) Eric Raymond (Open Source Initiative) Richard Stallman (GNU, Free Software Foundation, Emacs) Michael Tiemann (Cygnus Solutions) Linus Torvalds (Linux) Paul Vixie (Bind) Larry Wall (Perl) This book explains why the majority of the Internet's servers use open-source technologies for everything from the operating system to Web serving and email. Key technology

products developed with open-source software have overtaken and surpassed the commercial efforts of billion dollar companies like Microsoft and IBM to dominate software markets. Learn the inside story of what led Netscape to decide to release its source code using the open-source mode. Learn how Cygnus Solutions builds the world's best compilers by sharing the source code. Learn why venture capitalists are eagerly watching Red Hat Software, a company that gives its key product -- Linux -- away. For the first time in print, this book presents the story of the open-source phenomenon told by the people who created this movement. Open Sources will bring you into the world of free software and show you the revolution.

### **Readings in Database Systems**

Asynchronous JavaScript and XML (Ajax) is a web technique used to transfer data between a browser and server asynchronously without posting the web page to the server. "Asynchronously" implies that the processing of the web page continues while the Ajax request is sent to the server and a response is received from the server. The web page, or section(s) of the web page, is refreshed with the Ajax response without reposting the web page. Ajax has the following advantages over non-Ajax web applications.

- Reduced response time and reduced server load, as the complete web page is not reposted.
- Reduced bandwidth of web applications as only data is transferred and the HTML format is applied in the browser.
- Separation of data, format and style. The book covers web search and RSS Feed with Ajax as

well as form validation with Ajax frameworks for Java, JSP, JSF, and PHP. It discusses using Ajax in Oracle JDeveloper and is IDE based. JDeveloper has the following advantages over Eclipse IDE. - JDeveloper 11g provides an integrated JavaScript Editor for Ajax/Web development. - It also provides a PHP extension. - JDeveloper has a built-in support for JSF and for JDBC.

### **Think Java**

### **The CIO's Guide to Oracle Products and Solutions**

This book is a definitive introduction to models of computation for the design of complex, heterogeneous systems. It has a particular focus on cyber-physical systems, which integrate computing, networking, and physical dynamics. The book captures more than twenty years of experience in the Ptolemy Project at UC Berkeley, which pioneered many design, modeling, and simulation techniques that are now in widespread use. All of the methods covered in the book are realized in the open source Ptolemy II modeling framework and are available for experimentation through links provided in the book. The book is suitable for engineers, scientists, researchers, and managers who wish to understand the rich possibilities offered by modern modeling techniques. The goal of the book is to equip the reader with a breadth of experience that will help in understanding the role that such techniques can play

in design.

## **Rexx Programmer's Reference**

This textbook examines database systems from the viewpoint of a software developer. This perspective makes it possible to investigate why database systems are the way they are. It is of course important to be able to write queries, but it is equally important to know how they are processed. We e.g. don't want to just use JDBC; we also want to know why the API contains the classes and methods that it does. We need a sense of how hard is it to write a disk cache or logging facility. And what exactly is a database driver, anyway? The first two chapters provide a brief overview of database systems and their use. Chapter 1 discusses the purpose and features of a database system and introduces the Derby and SimpleDB systems. Chapter 2 explains how to write a database application using Java. It presents the basics of JDBC, which is the fundamental API for Java programs that interact with a database. In turn, Chapters 3-11 examine the internals of a typical database engine. Each chapter covers a different database component, starting with the lowest level of abstraction (the disk and file manager) and ending with the highest (the JDBC client interface); further, the respective chapter explains the main issues concerning the component, and considers possible design decisions. As a result, the reader can see exactly what services each component provides and how it interacts with the other components in the system. By the end of this part, s/he will have

witnessed the gradual development of a simple but completely functional system. The remaining four chapters then focus on efficient query processing, and focus on the sophisticated techniques and algorithms that can replace the simple design choices described earlier. Topics include indexing, sorting, intelligent buffer usage, and query optimization. This text is intended for upper-level undergraduate or beginning graduate courses in Computer Science. It assumes that the reader is comfortable with basic Java programming; advanced Java concepts (such as RMI and JDBC) are fully explained in the text. The respective chapters are complemented by “end-of-chapter readings” that discuss interesting ideas and research directions that went unmentioned in the text, and provide references to relevant web pages, research articles, reference manuals, and books. Conceptual and programming exercises are also included at the end of each chapter. Students can apply their conceptual knowledge by examining the SimpleDB (a simple but fully functional database system created by the author and provided online) code and modifying it.

### **XML Data Management**

Open Innovation describes an emergent model of innovation in which firms draw on research and development that may lie outside their own boundaries. In some cases, such as open source software, this research and development can take place in a non-proprietary manner. Henry Chesbrough and his collaborators investigate this phenomenon,

linking the practice of innovation to the established body of innovation research, showing what's new and what's familiar in the process. Offering theoretical explanations for the use (and limits) of open innovation, the book examines the applicability of the concept, implications for the boundaries of firms, the potential of open innovation to prove successful, and implications for intellectual property policies and practices. The book will be key reading for academics, researchers, and graduate students of innovation and technology management.

### **Cryptography for Internet and Database Applications**

Get up to speed on the nuances of NoSQL databases and what they mean for your organization This easy to read guide to NoSQL databases provides the type of no-nonsense overview and analysis that you need to learn, including what NoSQL is and which database is right for you. Featuring specific evaluation criteria for NoSQL databases, along with a look into the pros and cons of the most popular options, NoSQL For Dummies provides the fastest and easiest way to dive into the details of this incredible technology. You'll gain an understanding of how to use NoSQL databases for mission-critical enterprise architectures and projects, and real-world examples reinforce the primary points to create an action-oriented resource for IT pros. If you're planning a big data project or platform, you probably already know you need to select a NoSQL database to complete your architecture. But with options flooding the market and

updates and add-ons coming at a rapid pace, determining what you require now, and in the future, can be a tall task. This is where NoSQL For Dummies comes in! Learn the basic tenets of NoSQL databases and why they have come to the forefront as data has outpaced the capabilities of relational databases. Discover major players among NoSQL databases, including Cassandra, MongoDB, MarkLogic, Neo4J, and others. Get an in-depth look at the benefits and disadvantages of the wide variety of NoSQL database options. Explore the needs of your organization as they relate to the capabilities of specific NoSQL databases. Big data and Hadoop get all the attention, but when it comes down to it, NoSQL databases are the engines that power many big data analytics initiatives. With NoSQL For Dummies, you'll go beyond relational databases to ramp up your enterprise's data architecture in no time.

## **Databases, Types and the Relational Model**

Handbook of Open Source Tools introduces a comprehensive collection of advanced open source tools useful in developing software applications. The book contains information on more than 200 open-source tools which include software construction utilities for compilers, virtual-machines, database, graphics, high-performance computing, OpenGL, geometry, algebra, graph theory, GUIs and more. Special highlights for software construction utilities and application libraries are included. Each tool is covered in the context of a real like application.

development setting. This unique handbook presents a comprehensive discussion of advanced tools, a valuable asset used by most application developers and programmers; includes a special focus on Mathematical Open Source Software not available in most Open Source Software books, and introduces several tools (eg ACL2, CLIPS, CUDA, and COIN) which are not known outside of select groups, but are very powerful. Handbook of Open Source Tools is designed for application developers and programmers working with Open Source Tools. Advanced-level students concentrating on Engineering, Mathematics and Computer Science will find this reference a valuable asset as well.

### **Open Innovation**

Describes the legal implications of open source and free software licensing and provides an explanation of what an open source software license actually is, and how to draft one for personal use.

### **Handbook of Open Source Tools**

The corporate market is now embracing free, "open source" software like never before, as evidenced by the recent success of the technologies underlying LAMP (Linux, Apache, MySQL, and PHP). Each is the result of a publicly collaborative process among numerous developers who volunteer their time and energy to create better software. The truth is, however, that the overwhelming majority of free software projects fail. To help you beat the odds,

O'Reilly has put together *Producing Open Source Software*, a guide that recommends tried and true steps to help free software developers work together toward a common goal. Not just for developers who are considering starting their own free software project, this book will also help those who want to participate in the process at any level. The book tackles this very complex topic by distilling it down into easily understandable parts. Starting with the basics of project management, it details specific tools used in free software projects, including version control, IRC, bug tracking, and Wikis. Author Karl Fogel, known for his work on CVS and Subversion, offers practical advice on how to set up and use a range of tools in combination with open mailing lists and archives. He also provides several chapters on the essentials of recruiting and motivating developers, as well as how to gain much-needed publicity for your project. While managing a team of enthusiastic developers -- most of whom you've never even met -- can be challenging, it can also be fun. *Producing Open Source Software* takes this into account, too, as it speaks of the sheer pleasure to be had from working with a motivated team of free software developers.

### **Introduction to Embedded Systems - A Cyber Physical Systems Approach - Second Edition**

This is the official guide and reference manual for Subversion 1.6 - the popular open source revision control technology.

## **Structure and Interpretation of Computer Programs - 2nd Edition**

The Berkeley DB Book is intended to be a practical guide to the intricacies of Berkeley DB; an in-depth analysis of the complex design issues which are often covered in terse footnotes in the dense Berkeley DB reference manual. It explains the technology at a higher level and also covers the internals with generous code and design examples. Berkeley DB is becoming the database of choice for appliance makers and for in memory cache of large scale applications like search engines and high traffic web sites.

## **Understanding Open Source and Free Software Licensing**

If you're a student studying computer science or a software developer preparing for technical interviews, this practical book will help you learn and review some of the most important ideas in software engineering—data structures and algorithms—in a way that's clearer, more concise, and more engaging than other materials. By emphasizing practical knowledge and skills over theory, author Allen Downey shows you how to use data structures to implement efficient algorithms, and then analyze and measure their performance. You'll explore the important classes in the Java collections framework (JCF), how they're implemented, and how they're expected to perform. Each chapter presents hands-on exercises supported by test code online. Use data

structures such as lists and maps, and understand how they work Build an application that reads Wikipedia pages, parses the contents, and navigates the resulting data tree Analyze code to predict how fast it will run and how much memory it will require Write classes that implement the Map interface, using a hash table and binary search tree Build a simple web search engine with a crawler, an indexer that stores web page contents, and a retriever that returns user query results Other books by Allen Downey include Think Java, Think Python, Think Stats, and Think Bayes.

### **Processing XML Documents with Oracle JDeveloper 11g**

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