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Design Patterns for e-Science Henry Gardner,Gabriele Manduchi,2007-05-03 This is a book about a code and about coding The code is a case study which has been used to teach courses in e Science at the Australian National University since 2001 Students learn advanced programming skills and techniques TM in the Java language Above all they learn to apply useful object oriented design patterns as they progressively refactor and enhance the software We think our case study EScope is as close to real life as you can get It is a smaller version of a networked graphical waveform browser which is used in the control rooms of fusion energy experiments around the world It is quintessential e Science in the sense of e Science being computer science and information technology in the service of science It is not specifically Grid enabled but we develop it in a way that will facilitate its deployment onto the Grid The standard version of EScope interfaces with a specialised database for waveforms and related data known as MDSplus On the accompanying CD we have provided you with software which will enable you to install MDSplus EScope and sample data files onto Windows or Linux computers There is much additional software including many versions of the case study as it gets built up and progressively refactored using design patterns There will be a home web site for this book which will contain up to date information about the software and other aspects of the case study

Java Concepts Cay S. Horstmann,2009-12-30 This book introduces programmers to objects at a gradual pace The syntax boxes are revised to show typical code examples rather than abstract notation This includes optional example modules using Alice and Greenfoot The examples feature annotations with dos and don ts along with cross references to more detailed explanations in the text New tables show a large number of typical and cautionary examples New programming and review problems are also presented that ensure a broad coverage of topics In addition Java 7 features are included to provide programmers with the most up to date information

Beginning Cryptography with Java David Hook,2007-03-31 Beginning Cryptography with Java While cryptography can still be a controversial topic in the programming community Java has weathered that storm and provides a rich set of APIs that allow you the developer to effectively include cryptography in applications if you know how This book teaches you how Chapters one through five cover the architecture of the JCE and JCA symmetric and asymmetric key encryption in Java message authentication codes and how to create Java implementations with the API provided by the Bouncy Castle ASN 1 packages all with plenty of examples Building on that foundation the second half of the book takes you

into higher level topics enabling you to create and implement secure Java applications and make use of standard protocols such as CMS SSL and S MIME What you will learn from this book How to understand and use JCE JCA and the JSSE for encryption and authentication The ways in which padding mechanisms work in ciphers and how to spot and fix typical errors An understanding of how authentication mechanisms are implemented in Java and why they are used Methods for describing cryptographic objects with ASN 1 How to create certificate revocation lists and use the Online Certificate Status Protocol OCSP Real world Web solutions using Bouncy Castle APIs Who this book is for This book is for Java developers who want to use cryptography in their applications or to understand how cryptography is being used in Java applications Knowledge of the Java language is necessary but you need not be familiar with any of the APIs discussed Wrox Beginning guides are crafted to make learning programming languages and technologies easier than you think providing a structured tutorial format that will guide you through all the techniques involved

Integrated Management from E-Business Perspective

Pradeep Kumar Ray,2012-12-06 E Business covers a broad spectrum of businesses based on the Internet including e commerce e healthcare e government and e tailing While substantial attention is being given to the planning and development of e business applications the efficiency and effectiveness of e business systems will largely depend on management solutions These management solutions demand a good grasp of both the technical and business perspectives of an e business service There have been many books on the Internet based on e commerce Internet protocols distributed components etc However none of these books address the problem of managing e business as a set of networked services They do not link enterprise management with network and systems management This book provides an overview of the emerging techniques for IT service management from a business perspective with case studies from telecommunication and healthcare sectors It integrates the business perspective with relevant technical standards such as SNMP WBEM and DMI This book presents some concepts and methodologies that enable the development of effective and efficient management systems for networked services The book is intended to familiarize practicing managers engineers and graduate level students with networked service management concepts architectures and methodologies with reference to evolving standards It should be useful in a number of disciplines such as business management information systems computers and networking and telecommunications Appendix 2 is based on TeleManagement TM Forum s documents on TOM GB921 GB910 and GB908 While this appendix has explained the basic management concept of an e telco TMForum now recommends the use of eTOM as explained in www.tmforum.com An overview of eTOM is available in the report The TeleManagement Forum s enhanced Telecom Operations Map eTOM by Michael Kelly appearing in the Journal of Network and Systems Management in March 2003

Software Engineering in Intelligent Systems Radek Silhavy,Roman Senkerik,Zuzana Kominkova Oplatkova,Zdenka Prokopova,Petr Silhavy,2015-04-25 This volume is based on the research papers presented in the 4th Computer Science On line Conference The volume Software Engineering in Intelligent Systems presents new approaches and

methods to real world problems and in particular exploratory research that describes novel approaches in the field of Software Engineering Particular emphasis is laid on modern trends in selected fields of interest New algorithms or methods in a variety of fields are also presented The Computer Science On line Conference CSOC 2015 is intended to provide an international forum for discussions on the latest high quality research results in all areas related to Computer Science The addressed topics are the theoretical aspects and applications of Computer Science Artificial Intelligences Cybernetics Automation Control Theory and Software Engineering

Forthcoming Books Rose Arny,2003 *Big Java, 4th Edition* Cay Horstmann,2009 This book introduces programmers to objects at a gradual pace The syntax boxes are revised to show typical code examples rather than abstract notation This includes optional example modules using Alice and Greenfoot The examples feature annotations with dos and don ts along with cross references to more detailed explanations in the text New tables show a large number of typical and cautionary examples New programming and review problems are also presented that ensure a broad coverage of topics In addition Java 7 features are included to provide programmers with the most up to date information

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