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Guide to Efficient Software Design David P. Voorhees,2020-01-01 This classroom tested textbook presents an active learning approach to the 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 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 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 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

Java Software Structures John Lewis,Joseph Chase,2005 This title teaches CS2 students how to develop high quality software systems that will withstand the test of users and the test of time The authors provide a consistent presentation of data structures starting with a conceptual overview

Java Software Solutions Adrienne Bloss,N. Jane Ingram,2002-11

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Java Software Structures for AP Computer Science AB John Lewis,Joe Chase,William Loftus,Leigh Ann Sudol,2005

Generative and Transformational Techniques in Software Engineering II Ralf Lämmel,Joost Visser,João Saraiva,2008-10-08 The second instance of the international summer school on Generative and Transformational Techniques in Software Engineering GTTSE 2007 was held in Braga Portugal during July 2 7 2007 This volume contains an augmented selection of the material presented at the school including full tutorials short tutorials and contributions to the participants workshop The GTTSE summer school series brings together PhD students lecturers technology presenters as well as other researchers and practitioners who are interested in the generation and the transformation of programs data models metamodels documentation and entire software systems This concerns many areas of software engineering software reverse and re engineering model driven engineering automated software engineering generic language technology to name a few These areas differ with regard to the specific sorts of metamodels or grammars schemas formats etc that underlie the involved artifacts and with regard to the specific techniques that are employed for the generation and the transformation of the artifacts The first instance of the school was held in 2005 and its proceedings appeared as volume 4143 in the LNCS series

Data Structures with Java William H. Ford,William Ford,William R. Topp,2005 This modern object oriented approach to data structures helps readers gain an integrated understanding of data structures and their applications Carefully developing topics with sufficient detail this book enables users to learn about concepts on their own clarity of presentation and depth of coverage makes this a perfect learning tool for professionals It includes a solid introduction to algorithms an integral part of understanding the subject and uses Java syntax and structure in the design of data structures Its breadth of coverage insures that core topics such as linked

lists sets maps and iterators are carefully and comprehensively discussed For computer programmers computer analysts and information technology professionals *Data Structures with Java* John Rast Hubbard,Anita Huray,2004 For a freshman sophomore level course in Data Structures in Computer Science This text teaches the use of direct source code implementations and the use of the Java libraries it helps students prepare for later work on larger Java software solutions by adhering to software engineering principles and techniques such as the UML and the Java Collections Framework JCF Using the spiral approach to cover such topics as linked structures recursion and algorithm analysis this text also provides revealing illustrations summaries review questions and specialized reference sections [OCM Java EE 6 Enterprise Architect Exam Guide \(Exams 1Z0-807, 1Z0-865 & 1Z0-866\)](#) Paul R. Allen,Joseph J. Bambara,2014-08-15 A Complete Study System for OCM Exams 1Z0 807 1Z0 865 and 1Z0 866 Prepare for the Oracle Certified Master Java EE 6 Enterprise Architect exams with this exclusive Oracle Press guide The multiple choice exam the assignment and the essay exam are covered Chapters feature challenging exercises a certification summary a two minute drill and a self test to reinforce the topics presented This authoritative resource helps you pass these exams and also serves as an essential on the job reference Get complete coverage of all exam objectives including Application design concepts and principles Common architectures Integration and messaging Business tier technologies Web tier technologies Design patterns Security Electronic content includes 120 multiple choice practice exam questions Test engine that provides practice exams and customized quizzes by chapter **Developing Java Software** Russel Winder,Graham Roberts,1998 This book takes the reader from the basic principles of object oriented design and programming using Java through to class library construction and application development It teaches fundamental programming concepts object oriented principles and how to exploit class based abstraction This is supported by a detailed description of how programs are designed and is illustrated by substantial examples With the core concepts in place the book then provides a Java programming language reference detailing each language feature from types and variables through to classes exceptions and threads A key part of the reference is the provision of many small example programs allowing the reader to see how the language features are used [Reverse Engineering](#) . Ieee,1999 Three papers each cover architecture reengineering the meta level techniques documentation metrics case studies modularization tools and Java Their topics include software architecture transformation a framework for classifying and comparing software reverse engineering and design recover **CISSP All-in-One Exam Guide, Fifth Edition** Shon Harris,2010-01-31 Get complete coverage of the latest release of the Certified Information Systems Security Professional CISSP exam inside this comprehensive fully updated resource Written by the leading expert in IT security certification and training this authoritative guide covers all 10 CISSP exam domains developed by the International Information Systems Security Certification Consortium ISC2 You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Designed to help you pass the CISSP exam with ease this

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Java Software Structures John Lewis,Joe Chase,2013-02-13

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Java Report ,2001 **OCA Oracle Database 11g**

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registration **The Waite Group's NC Guide** Piroz Mohseni, 1997 This volume introduces the concept of network computers and the paradigm shift it brings to the computing world. The first part details the different NC standards available the second looks at software issues and the final part deals with server and application developments **Java 2**

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