Software Reuse:
Methods,
Models,
Costs
2nd Edition

Ronald J. Leach

Software Reuse Second Edition Methods Models Costs

Wenbin Ji

Software Reuse Second Edition Methods Models Costs:

   Software Reuse, Second Edition Ronald J. Leach,2013-05 This book is an updated edition of the previous McGraw Hill edition which was an essential guide to successful reuse across the entire software life cycle It explains in depth the fundamentals economics and metrics of software reuse The bottom line is good news for designers of complex systems Systematic software reuse can succeed even if the underlying technology is changing rapidly Software reuse has been called the central technical concept of object oriented design This book covers reuse in object oriented systems but goes far beyond in its coverage of complex systems the type that may evolve into systems of systems Important new material has been added to this edition on the changed state of the art and state of the practice of software reuse on product line architectures on the economics of reuse on the maintenance of COTS based systems A case study using DoDAF The Department of Defense Architectural Framework in system design has been included to show some new thinking about reuse and some attributes of large scale components of very large systems After an introduction to basics the book shows you how to 1 Access reuse and disadvantages for your systems 2 Understand and use domain analysis 3 Estimate total costs including maintenance using life cycle based models 4 Organize and manage reuse libraries 5 Certify software components that have been created at any phase of the software life cycle your organization uses 6 Implement systematic reuse using COTS commercial off the shelf components and other existing software The book includes several models and reengineering checklists as well as important case studies These models and checklists help anyone faced with the problem of whether to build buy reuse or reengineer any software component system or subsystem of reasonable complexity Such components subsystems and systems often fit into the new paradigms of service oriented architectures SOA and software as a service SaAS Software Reuse Methods Models Costs emphasizes the cost efficient development of high quality software systems in changing technology environments Our primary example of domain analysis which is the analysis of software into potentially reusable artifacts often at a higher level than simply source code modules is the assessment of possibilities for reuse in the Linux kernel There are eight chapters in Software Reuse Methods Models Costs What is Software Reuse Techniques which included domain analysis Reuse Libraries Certification of Reusable Software Components The Economics of Software Reuse Reengineering Case Studies and Tools For Software Reuse   *A Holistic View of Software and Hardware Reuse* Fevzi Belli,Ferdinand Quella,2021-06-11 This book focuses on software reuse and the chances dependability tests and recommendations for best reuse practice A short introduction of the Ecodesign of hardware is given combined with the latest update of relevant EU legislation and standardization It also describes the combination of different states of software in a E E system in order to guarantee dependability of the product to be resold   *Introduction to Software Engineering* Ronald J. Leach,2018-09-03 Practical Guidance on the Efficient Development of High Quality Software Introduction to Software Engineering Second Edition equips students with the fundamentals to prepare them for satisfying careers as software engineers regardless of

future changes in the field even if the changes are unpredictable or disruptive in nature Retaining the same organization as its predecessor this second edition adds considerable material on open source and agile development models The text helps students understand software development techniques and processes at a reasonably sophisticated level Students acquire practical experience through team software projects Throughout much of the book a relatively large project is used to teach about the requirements design and coding of software In addition a continuing case study of an agile software development project offers a complete picture of how a successful agile project can work The book covers each major phase of the software development life cycle from developing software requirements to software maintenance It also discusses project management and explains how to read software engineering literature Three appendices describe software patents command line arguments and flowcharts **Software Engineering (WBUT), 2nd Edition** Rohit Khurana, Innovations in software engineering have ushered in an era of wired technology We are constantly surrounded by the products of this revolution With this book the author has created a resourceful cache of latest information for aspiring software engineers preparing them for a productive industry experience Elaboration on concepts of software development and engineering the book gives an insightful view of the fundamentals of system design coding and documentation software metrics management and cost estimation Based upon the updated university curriculum this book is a student friendly work that explains difficult concepts with neat illustrations and examples Topic wise discussions on system testing and computer aided software engineering go a long way in equipping budding software engineers with the right knowledge and expertise This is a great book for self based learning and for competitive examinations It comes with a glossary of technical terms Key Features Lucid well explained concepts with solved examples Complete coverage of the updated university syllabus Chapter end summaries and questions for quick review Relevant illustrations for better understanding and retention Glossary of technical terms Solution to previous years university papers **Software Engineering: Principles and Practices, 2nd Edition** Khurana Rohit,2010 This revised edition of Software Engineering Principles and Practices has become more comprehensive with the inclusion of several topics The book now offers a complete understanding of software engineering as an engineering discipline Like its previous edition it provides an in depth coverage of fundamental principles methods and applications of software engineering In addition it covers some advanced approaches including Computer aided Software Engineering CASE Component based Software Engineering CBSE Clean room Software Engineering CSE and formal methods Taking into account the needs of both students and practitioners the book presents a pragmatic picture of the software engineering methods and tools A thorough study of the software industry shows that there exists a substantial difference between classroom study and the practical industrial application Therefore earnest efforts have been made in this book to bridge the gap between theory and practical applications The subject matter is well supported by examples and case studies representing the situations that one actually faces during the software development process The book meets the requirements of students enrolled in various

courses both at the undergraduate and postgraduate levels such as BCA BE BTech BIT BIS BSc PGDCA MCA MIT MIS MSc various DOEACC levels and so on It will also be suitable for those software engineers who abide by scientific principles and wish to expand their knowledge With the increasing demand of software the software engineering discipline has become important in education and industry This thoughtfully organized second edition of the book provides its readers a profound knowledge of software engineering concepts and principles in a simple interesting and illustrative manner   Software Design Methods for Concurrent and Real-time Systems Hassan Gomaa,1993 This book describes the concepts and methods used in the software design of real time systems The author outlines the characteristics of real time systems describes the role of software design in real time system development surveys and compares some software design methods for real time systems and outlines techniques for the verification and validation of real time system designs   **Estimating Software Costs** Capers Jones,2007-05-10 Deliver bug free software projects on schedule and within budget Get a clear complete understanding of how to estimate software costs schedules and quality using the real world information contained in this comprehensive volume Find out how to choose the correct hardware and software tools develop an appraisal strategy deploy tests and prototypes and produce accurate software cost estimates Plus you ll get full coverage of cutting edge estimating approaches using Java object oriented methods and reusable components Plan for and execute project phase and activity level cost estimations Estimate regression component integration and stress tests Compensate for inaccuracies in data collection calculation and analysis Assess software deliverables and data complexity Test design principles and operational characteristics using software prototyping Handle configuration change research quality control and documentation costs Capers Jones work offers a unique contribution to the understanding of the economics of software production It provides deep insights into why our advances in computing are not matched with corresponding improvements in the software that drives it This book is absolutely required reading for an understanding of the limitations of our technological advances Paul A Strassmann former CIO of Xerox the Department of Defense and NASA   **IBM Systems Journal** International Business Machines Corporation,1993   **Client/server Software Maintenance** Scott L. Schneberger,1997 This book provides a wealth of practical help as it presents a systematic strategic framework for controlling costs avoiding common problems and optimizing user support Readers will also learn how to weigh proposed client server system additions and changes based on their likely software maintenance impact Here are simple straightforward solutions that every IS and or systems manager can readily implement for virtually every type of network configuration All technical sections include illustrative examples and executive sidebars that will provide even non technical personnel with a better strategic understanding of the issues Plenty of real world examples of client server and software maintenance solutions and a summary of the first research into the maintenance practices of Fortune 500 companies add further value   *Signal* ,1993   **Government Reports Announcements & Index** ,1993   Proceedings Institute of Electrical and Electronics Engineers,American Institute of

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