



Software Maintenance

RJ Alexander



Software Maintenance:

Software Maintenance James Martin, Carma L. McClure, 1983 Designing for maintenance The methodology revolution Packages Performing the maintenance function Viewing the future *Software Maintenance Management* Alain April, Alain Abran, 2008-04-11 This book explores the domain of software maintenance management and provides road maps for improving software maintenance organizations It describes full maintenance maturity models organized by levels 1 2 and 3 which allow for benchmarking and continuous improvement paths Goals for each key practice area are also provided and the model presented is fully aligned with the architecture and framework of software development maturity models of CMMI and ISO 15504 It is complete with case studies figures tables and graphs *Handbook of Software Maintenance* Girish Parikh, 1986 Containing technical and managerial tips techniques guidelines sources and case studies here is a total guide to effective and economical software management Using a question answer format throughout it addresses just about every issue and topic software managers and technicians face on the job including the latest maintenance technologies such as structured and software tool based technologies common terminology program rewriting the role of the user in maintenance maintaining vendor packages and the future of software management and technology **Software Maintenance** Penny Grubb, Armstrong A. Takang, 2003 Software systems now invade every area of daily living Yet we still struggle to build systems we can really rely on If we want to work with software systems at any level we need to get to grips with the way software evolves This book will equip the reader with a sound understanding of maintenance and how it affects all levels of the software evolution process **Software Maintenance: Concepts And Practice (Second Edition)** Penny Grubb, Armstrong A Takang, 2003-07-07 Software systems now invade every area of daily living Yet we still struggle to build systems we can really rely on If we want to work with software systems at any level we need to get to grips with the way software evolves This book will equip the reader with a sound understanding of maintenance and how it affects all levels of the software evolution process **Software Maintenance Management** Alain April, Alain Abran, 2012-04-20 This book explores the domain of software maintenance management and provides road maps for improving software maintenance organizations It describes full maintenance maturity models organized by levels 1 2 and 3 which allow for benchmarking and continuous improvement paths Goals for each key practice area are also provided and the model presented is fully aligned with the architecture and framework of software development maturity models of CMMI and ISO 15504 It is complete with case studies figures tables and graphs **Tutorial on Software Maintenance** Girish Parikh, Nicholas Zvegintzov, 1983 Software maintenance the work done on a software system after it becomes operational consumes at least half of all technical and management resources expended in the software area This volume supplies an overview of software maintenance what it is how to do it how to manage it and trends in current research The thirty one papers included are frequently requested from their authors from hard to find sources cover the foundations of current thinking on this topic and

extend the frontiers of research *Advances in Software Maintenance Management: Technologies and Solutions* Piattini, Mario, Polo, Macario, Ruiz, Francisco, 2002-07-01 *Advances in Software Maintenance Management Technologies and Solutions* is a compilation of chapters from some of the best researchers and practitioners in the area of software maintenance The chapters in this book are intended to be useful to a wide audience where software maintenance is a mandatory matter for study *Software Maintenance Management* James A. McCall, Mary A. Herndon, 1985 **Software Maintenance Management** Bennet P. Lientz, E. Burton Swanson, 1980 USA Monograph on the management and maintenance of computer programmes based on a 1979 questionnaire survey analyses data processing management cost application and enhancement of software Bibliography pp 178 to 184 Annotated Bibliography on Software Maintenance Wilma M. Osborne, Ron Raigrodski, 1986 **Software Maintenance - A Management Perspective** Phaneendra Nath Vellanky, 2007-10-23

Computer systems play an important role in our society Software drives those systems Massive investments of time and resources are made in developing and implementing these systems Maintenance is inevitable It is hard and costly Considerable resources are required to keep the systems active and dependable We cannot maintain software unless maintainability characters are built into the products and processes There is an urgent need to reinforce software development practices based on quality and reliability principles Though maintenance is a mini development lifecycle it has its own problems Maintenance issues need corresponding tools and techniques to address them Software professionals are key players in maintenance While development is an art and science maintenance is a craft We need to develop maintenance personnel to master this craft Technology impact is very high in systems world today We can no longer conduct business in the way we did before That calls for reengineering systems and software Even reengineered software needs maintenance soon after its implementation We have to take business knowledge procedures and data into the newly reengineered world Software maintenance people can play an important role in this migration process Software technology is moving into global and distributed networking environments Client server systems and object orientation are on their way Massively parallel processing systems and networking resources are changing database services into corporate data warehouses Software engineering environments rapid application development tools are changing the way we used to develop and maintain software Software maintenance is moving from code maintenance to design maintenance even onto specification maintenance Modifications today are made at specification level regenerating the software components testing and integrating them with the system Eventually software maintenance has to manage the evolution and evolutionary characteristics of software systems Software professionals have to maintain not only the software but the momentum of change in systems and software In this study we observe various issues tools and techniques and the emerging trends in software technology with particular reference to maintenance We are not searching for specific solutions We are identifying issues and finding ways to manage them live with them and control their negative impact Software Maintenance Success Recipes Donald J.

Reifer,2016-04-19 Software Maintenance Success Recipes identifies actionable formulas for success based on in depth analysis of more than 200 real world maintenance projects It details the set of factors that are usually present when effective software maintenance teams do their work and instructs on the methods required to achieve success Donald J Reifer an award winner for his contributions to the field of software engineering provides step by step guidance on how to structure the job to complete all of the work related to the task

Effective Software Maintenance and Evolution Stanislaw Jarzabek,2007-05-07 With software maintenance costs averaging 50% of total computing costs it is necessary to have an effective maintenance program in place Aging legacy systems for example pose an especially rough challenge as veteran programmers retire and their successors are left to figure out how the systems operate This book explores program analyzers reveal

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Software Evolution and Maintenance Priyadarshi Tripathy,Kshirasagar Naik,2014-11-17 Provides students and engineers with the fundamental developments and common practices of software evolution and maintenance Software Evolution and Maintenance A Practitioner s Approach introduces readers to a set of well rounded educational materials covering the fundamental developments in software evolution and common maintenance practices in the industry Each chapter gives a clear understanding of a particular topic in software evolution and discusses the main ideas with detailed examples The authors first explain the basic concepts and then drill deeper into the important aspects of software evolution While designed as a text in an undergraduate course in software evolution and maintenance the book is also a great resource for software engineers information technology professionals and graduate students in software engineering Based on the IEEE SWEBOK Software Engineering Body of Knowledge Explains two maintenance standards IEEE EIA 1219 and ISO IEC14764 Discusses several commercial reverse and domain engineering toolkits Slides for instructors are available online Software Evolution and Maintenance A Practitioner s Approach equips readers with a solid understanding of the laws of software engineering evolution and maintenance models reengineering techniques legacy information systems impact analysis refactoring program comprehension and reuse

Practical Software Maintenance Thomas M. Pigowski,1997 Overview of software maintenance Why maintenance is expensive Evolution of software processes and models A recommended software maintenance process Pre delivery software maintenance activities Planning parts I Planning part III resources Transition Transition experiences part I Transition experiences part II Setting up the software maintenance organization Tools and environment Software maintenance metrics Software maintenance metrics experiences Maintainability Software maintenance management

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