

# Types of Software Maintenance

	<b>Adaptive Software Maintenance</b>	Accommodates software in a new environment, assists businesses to ensure their software can keep up with new changes and function properly
	<b>Corrective Software Maintenance</b>	Helps in fixing software errors like poor database design, bugs, viruses, security vulnerabilities, etc., by analyzing crash reports
	<b>Preventive Software Maintenance</b>	Takes care of changes and adaptations that reduce software deterioration risk with restructuring, code optimization, and updating documentation
	<b>Perfective Software Maintenance</b>	Addresses the functionality and usability of the software by focusing on features and functional enhancements that improves user experience

# Software Maintenance

**Michael Brown**



## **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* 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

**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 Management* James A. McCall, Mary A. Herndon, 1985 **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 Software Maintenance David Bellin, 1991 *Practical Software Maintenance* Thomas M. Pigoski, 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 Education and training Impact of object oriented technology on software maintenance Software maintenance resources The future of software maintenance Glossary Bibliography Index *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 *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 *Guideline on Software Maintenance* United States. National Bureau of Standards,1984 *Unraveling Software Maintenance and Evolution* Ervin Varga,2018-01-29 Software maintenance work is often considered a dauntingly rigid activity this book proves the opposite it demands high levels of creativity and thinking outside the box Highlighting the creative aspects of software maintenance and combining analytical and systems thinking in a holistic manner the book motivates readers not to blithely follow the beaten tracks of technical rationality It delivers the content in a pragmatic fashion using case studies which are woven into long running story lines The book is organized in four parts which can be read in any order except for the first chapter which introduces software maintenance and evolution and presents a number of case studies of software failures The Introduction to Key Concepts briefly introduces the major elements of software maintenance by highlighting various core concepts that are vital in order to see the forest for the trees Each such concept is illustrated with a worked example Next the Forward Engineering part debunks the myth that being fast and successful during initial development is all that matters To this end two categories of forward engineering are considered an inept initial project with a multitude of hard evolutionary phases and an effective initial project with multiple straightforward future increments Reengineering and Reverse Engineering shows the difficulties of dealing with a typical legacy system and tackles tasks such as retrofitting tests documenting a system restructuring a system to make it amenable for further improvements etc Lastly the DevOps section focuses on the importance and benefits of crossing the development versus operation chasm and demonstrates how the DevOps paradigm can turn a loosely coupled design into a loosely deployable solution The book is a valuable resource for readers familiar with the Java programming language and with a basic understanding and or experience of software construction and testing Packed with examples for every elaborated concept it offers complementary material for existing courses and is useful for students and professionals alike Software Maintenance Guidebook Robert L. Glass,Ronald A. Noiseux,1981 The people side of maintenance The technical side of maintenance The management side of maintenance A maintainer s diary Bibliography Index *Auditing the Maintenance of Software* S. Rao Vallabhaneni,1987 **A Modeling Technique for the Estimation of Selected Software Maintenance Factors Used in Managing the Software Maintenance Process** Harold G. Plain,1989 **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 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 reve **Software Maintenance** James Martin,1985 **"Code of Massachusetts regulations, 2009"** ,2009 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2008"** ,2008 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

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## **Table of Contents Software Maintenance**

1. Understanding the eBook Software Maintenance
  - The Rise of Digital Reading Software Maintenance
  - Advantages of eBooks Over Traditional Books
2. Identifying Software Maintenance
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Software Maintenance
  - User-Friendly Interface
4. Exploring eBook Recommendations from Software Maintenance
  - Personalized Recommendations
  - Software Maintenance User Reviews and Ratings
  - Software Maintenance and Bestseller Lists
5. Accessing Software Maintenance Free and Paid eBooks
  - Software Maintenance Public Domain eBooks
  - Software Maintenance eBook Subscription Services
  - Software Maintenance Budget-Friendly Options

6. Navigating Software Maintenance eBook Formats
  - ePub, PDF, MOBI, and More
  - Software Maintenance Compatibility with Devices
  - Software Maintenance Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Software Maintenance
  - Highlighting and Note-Taking Software Maintenance
  - Interactive Elements Software Maintenance
8. Staying Engaged with Software Maintenance
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Software Maintenance
9. Balancing eBooks and Physical Books Software Maintenance
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Software Maintenance
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Software Maintenance
  - Setting Reading Goals Software Maintenance
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Software Maintenance
  - Fact-Checking eBook Content of Software Maintenance
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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