Software Engineering By Tata Mcgraw Hill

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Advances in Software Engineering 1995 **Software Technology and Engineering** *Software Quality* Kamna Malik 2008 Quality is redoubtably a viable business proposition and a definite business imperative. Software Quality--A Practitioner's Approach focuses on delivered quality to customers based on principles of software engineering, quality and management. It covers w.

Computer Systems and Software Engineering: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources 2017-12-01 Professionals in the interdisciplinary field of computer science focus on the design, operation, and maintenance of computational systems and software. Methodologies and tools of engineering are utilized alongside computer applications to develop efficient and precise information databases. Computer Systems and Software Engineering: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on trends, techniques, and uses of various technology applications and examines the benefits and challenges of these computational developments. Highlighting a range of pertinent topics such as utility computing, computer security, and information systems applications, this multi-volume book is ideally designed for academicians, researchers, students, web designers, software developers, and practitioners interested in computer systems and software engineering.

Formal Methods and Software Engineering Kazuhiro Ogata 2016-10-31 This book constitutes the refereed proceedings of the 18th International Conference on Formal Engineering Methods, ICFEM 2016, held in Tokyo, Japan, in November 2016. The 27 revised full papers presented together with three invited talks were carefully reviewed and selected from 64 submissions. The conference

focuses in all areas related to formal engineering meth-ods, such as verification and validation, software engineering, formal specification and modeling, software security, and software reliability.

Effective Execution Raghav S Nandyal 2021-06-04 '[A]t its core, this is a book about organizational development and a thorough and broad-ranging one at that.... Follow Raghav through this book, he will show you the way.' -Dr Bill Curtis, Fort Worth, Texas 'Raghav writes about the importance of problem-solving by maintaining a solid execution focus; and getting the job done effectively.' -Commodore Anand Khandekar I.N. (Retd), Pune Execution effectiveness has remained an unconscious focus, and not the primary focus, as organizations struggle with mediocre execution most of the times as a result of the interplay between unmindful workplace and workforce ineffectiveness. Effective Execution: Building High-Performing Organizations identifies the core foundations on which both workplace and workforce effectiveness must be fostered to make execution 'mindful of waste'. It focuses on: · How can an organization enable alignment of individuals' work, when they are drawn into an organization from vastly differing family, social, cultural and competency backgrounds, to achieve common business objectives? · Why are some implementations more effective than the others when organizations implement the same set of best practices contained in popular management frameworks addressing the topic of performance improvement?

Author Raghav S. Nandyal draws from his worldwide consulting practice and field experiences to help CEOs and managers develop true learning organizations that build and retain advanced knowledge of their business. *Enterprise Information Systems: Concepts, Methodologies, Tools and Applications* Management Association, Information Resources 2010-09-30 This three-volume collection, titled Enterprise Information Systems: Concepts, Methodologies, Tools and Applications, provides a complete assessment of the latest developments in enterprise information systems research, including development, design, and emerging methodologies. Experts in the field cover all aspects of enterprise resource planning (ERP), e-commerce, and organizational, social and technological implications of enterprise information systems. **FUNDAMENTALS OF SOFTWARE ENGINEERING, FIFTH EDITION** MALL, RAJIB 2018-09-01 This new edition of the book, is restructured to trace the advancements made and landmarks achieved in software engineering. The text not only incorporates latest and enhanced software engineering techniques and practices, but also shows how these techniques are applied into the practical software assignments. The chapters are incorporated with illustrative examples to add an analytical insight on the subject. The book is logically organised to cover expanded and revised treatment of all software process activities. KEY FEATURES • Large number of worked-out examples and practice problems • Chapter-end

exercises and solutions to selected problems to check students' comprehension on the subject • Solutions manual available for instructors who are confirmed adopters of the text • PowerPoint slides available online at www.phindia.com/rajibmall to provide integrated learning to the students NEW TO THE FIFTH EDITION • Several rewritten sections in almost every chapter to increase readability • New topics on latest developments, such as agile development using SCRUM, MC/DC testing, quality models, etc. • A large number of additional multiple choice questions and review questions in all the chapters help students to understand the important concepts TARGET AUDIENCE • BE/B.Tech (CS and IT) • BCA/MCA • M.Sc. (CS) • MBA **Software Engineering** K.K. Aggarwal 2005 This Book Is Designed As A Textbook For The First Course In Software Engineering For Undergraduate And Postgraduate Students. This May Also Be Helpful For Software Professionals To Help Them Practice The Software Engineering Concepts.The Second Edition Is An Attempt To Bridge The Gap Between What Is Taught In The Classroom And What Is Practiced In The Industry . The Concepts Are Discussed With The Help Of Real Life Examples And Numerical Problems.This Book Explains The Basic Principles Of Software Engineering In A Clear And Systematic Manner. A Contemporary Approach Is Adopted Throughout The Book. After Introducing The Fundamental Concepts, The Book Presents A Detailed Discussion Of Software Requirements Analysis &

Specifications. Various Norms And Models Of Software Project Planning Are Discussed Next, Followed By A Comprehensive Account Of Software Metrics.Suitable Examples, Illustrations, Exercises, Multiple Choice Questions And Answers Are Included Throughout The Book To Facilitate An Easier Understanding Of The Subject.

A Journey Towards Bio-inspired Techniques in Software Engineering Jagannath Singh 2020-03-11 This book covers a range of basic and advanced topics in software engineering. The field has undergone several phases of change and improvement since its invention, and there is significant ongoing research in software development, addressing aspects such as analysis, design, testing and maintenance. Rather than focusing on a single aspect of software engineering, this book provides a systematic overview of recent techniques, including requirement gathering in the form of story points in agile software, and bio-inspired techniques for estimating the effort, cost, and time required for software development. As such it is a valuable resource for new researchers interested in advances in software engineering – particularly in the area of bio-inspired techniques.

Advances in Software Engineering Changhoon Lee 2009-11-02 As software engineering (SE) becomes specialized and fragmented, it is easy to lose sight that many topics in SE have common threads and because of this, advances in one sub-discipline may transmit to another. The presentation of results between diff- ent sub-

disciplines of SE encourages this interchange for the advancement of SE as a whole. Of particular interest is the hybrid approach of combining ideas from one d- cipline with those of another to achieve a result that is more significant than the sum of the individual parts. Through this hybrid philosophy, a new or common principle can be discovered which has the propensity to propagate throughout this multifaceted discipline. This volume comprises the selection of extended versions of papers that were p- sented in their shortened form at the 2008 International Conference on Advanced Software Engineering and Its Applications (http://www.sersc.org/ASEA2008/) and 2009 Advanced Science and Technology (http://www.sersc.org/AST2009/). We would like to acknowledge the great effort of all in the ASEA 2008 and AST 2009 International Advisory Board and members of the International Program Committee, as well as all the organizations and individuals who supported the idea of publishing these advances in software engineering, including SERSC (http://www.sersc.org/) and Springer. We would like to give special thanks to Rosslin John Robles, Maricel O. Balitanas, Farkhod Alisherov Alisherovish, Feruza Sattarova Yusfovna. These graduate school students of Hannam University attended to the editing process of this volume with great passion. Quantifying Software Capers Jones 2017-10-24 Software is one of the most important products in human history and is widely used by all

industries and all countries. It is also one of the most expensive and labor-intensive products in human history. Software also has very poor quality that has caused many major disasters and wasted many millions of dollars. Software is also the target of frequent and increasingly serious cyber-attacks. Among the reasons for these software problems is a chronic lack of reliable quantified data. This reference provides quantified data from many countries and many industries based on about 26,000 projects developed using a variety of methodologies and team experience levels. The data has been gathered between 1970 and 2017, so interesting historical trends are available. Since current average software productivity and quality results are suboptimal, this book focuses on

"best in class" results and shows not only quantified quality and productivity data from best-in-class organizations, but also the technology stacks used to achieve best-in-class results. The overall goal of this book is to encourage the adoption of best-in-class software metrics and best-in-class technology stacks. It does so by providing current data on average software schedules, effort, costs, and quality for several industries and countries. Because productivity and quality vary by technology and size, the book presents quantitative results for applications between 100 function points and 100,000 function points. It shows quality results using defect potential and DRE metrics because the number one cost driver for software is finding and fixing bugs. The book

presents data on cost of quality for software projects and discusses technical debt, but that metric is not standardized. Finally, the book includes some data on three years of software maintenance and enhancements as well as some data on total cost of ownership.

Technical Aptitude For Interviews: Computer Science And It Ela Kashyap Sharma 2016 IT industry offers lucrative job opportunities not only for the IT graduates but also for all those non-IT background students who thrive to build their career in this field. This book, now in its second edition, apprises the reader with every minute detail of the IT concepts and serves as a self-help guide for the graduates and students appearing for their placement tests and interviews in the final year. The book begins with the details of recruitment process and focuses on tackling difficult HR interview questions, resume building tips and provides sample resume which will equip the students for the interviews and hone their overall personality. The testimonials by the industry experts and academicians succinctly tell about the expectations of industry employers from the new recruits. The text in the middle chapters elaborates the programming concepts of C, C++ and Java as well as the concepts related to database, software engineering, operating systems, networking and DOT NET in great detail. The last chapter of the book presents a number of topics relating to general computer science aptitude. NEW TO THE SECOND EDITION • Numerous sections and examples have

been included in chapters on OOP Concepts—Classes and Objects, Inheritance in C++, Polymorphism, Exception Handling and Templates in C++ and Operating System Concepts. • Completely revamped text in the chapter on Database Concepts. • Several MCQs from the latest interviews have now been incorporated into the respective chapters. • Five sample test papers with solutions are provided for practice. KEY FEATURES • Includes questions gathered from the interviews conducted by companies such as Virtusa, TCS, IBM, DELL, HCL, Aon Hewitt, Convergys, CSC and Wipro. • Serves as a complete guide containing basic programming concepts helpful for non-IT background students as well. REVIEWER'S COMMENT It was a dream come true for me when I got placed in CISCO SYSTEMS with a package of 10.7 lakhs. I am immensely thankful to Ela Kashyap for writing such an amazing book. It has all the requisite information required to crack any interview, as it succinctly covers all the important topics one needs to know for IT interviews. The book has helped me to crack five rounds of interview. So, I would like to recommend this book to all the engineering students.

Software Project Management Ashfaque Ahmed 2016-04-19 To build reliable, industry-applicable software products, large-scale software project groups must continuously improve software engineering processes to increase product quality, facilitate cost reductions, and adhere to tight schedules. Emphasizing the critical components of successful large-scale software

projects, Software Project Management: A

Software Project Management: A Concise Study 2Nd Ed. 2009
Software Development Patterns and Antipatterns Capers Jones 2021-08-26 Software development has been a troubling since it first started. There are seven chronic problems that have plagued it from the beginning: Incomplete and ambiguous user requirements that grow by >2% per month. Major cost and schedule overruns for large applications > 35% higher than planned. Low defect removal efficiency (DRE) Cancelled projects that are not completed: > 30% above 10,000 function points. Poor quality and low reliability after the software is delivered: > 5 bugs per FP. Breach of contract litigation against software outsource vendors. Expensive maintenance and enhancement costs after delivery. These are endemic problems for software executives, software engineers and software customers but they are not insurmountable. In Software Development Patterns and Antipatterns, software engineering and metrics pioneer Capers Jones presents technical solutions for all seven. The solutions involve moving from harmful patterns of software development to effective patterns of software development. The first section of the book examines common software development problems that have been observed in many companies and government agencies. The data on the problems comes from consulting studies, breach of contract lawsuits, and the literature on major software failures. This section considers the

factors involved with cost overruns, schedule delays, canceled projects, poor quality, and expensive maintenance after deployment. The second section shows patterns that lead to software success. The data comes from actual companies. The section's first chapter on Corporate Software Risk Reduction in a Fortune 500 company was based on a major telecom company whose CEO was troubled by repeated software failures. The other chapters in this section deal with methods of achieving excellence, as well as measures that can prove excellence to C-level executives, and with continuing excellence through the maintenance cycle as well as for software development.

Software Engineering With Java Stephen R. Schach 1997

A Manager S Guide To Software Engineering Pressman
Evolving Software Processes Arif Ali Khan 2022-01-05 EVOLVING SOFTWARE PROCESSES The book provides basic building blocks of evolution in software processes, such as DevOps, scaling agile process in GSD, in order to lay a solid foundation for successful and sustainable future processes. One might argue that there are already many books that include descriptions of software processes. The answer is "yes, but." Becoming acquainted with existing software processes is not enough. It is tremendously important to understand the evolution and advancement in software processes so that developers appropriately address the problems, applications, and environments to which they are applied. Providing

basic knowledge for these important tasks is the main goal of this book. Industry is in search of software process management capabilities. The emergence of the COVID-19 pandemic emphasizes the industry's need for software-specific process management capabilities. Most of today's products and services are based to a significant degree on software and are the results of largescale development programs. The success of such programs heavily depends on process management capabilities, because they typically require the coordination of hundreds or thousands of developers across different disciplines. Additionally, software and system development are usually distributed across geographical, cultural and temporal boundaries, which make the process management activities more challenging in the current pandemic situation. This book presents an extremely comprehensive overview of the evolution in software processes and provides a platform for practitioners, researchers and students to discuss the studies used for managing aspects of the software process, including managerial, organizational, economic and technical. It provides an opportunity to present empirical evidence, as well as proposes new techniques, tools, frameworks and approaches to maximize the significance of software process management. Audience The book will be used by practitioners, researchers, software engineers, and those in software process management, DevOps, agile and global software development.

Software Engineering Frameworks for

the Cloud Computing Paradigm Zaigham Mahmood 2013-04-19 This book presents the latest research on Software Engineering Frameworks for the Cloud Computing Paradigm, drawn from an international selection of researchers and practitioners. The book offers both a discussion of relevant software engineering approaches and practical guidance on enterprise-wide software deployment in the cloud environment, together with real-world case studies. Features: presents the state of the art in software engineering approaches for developing cloud-suitable applications; discusses the impact of the cloud computing paradigm on software engineering; offers guidance and best practices for students and practitioners; examines the stages of the software development lifecycle, with a focus on the requirements engineering and testing of cloud-based applications; reviews the efficiency and performance of cloud-based applications; explores feature-driven and cloud-aided software design; provides relevant theoretical frameworks, practical approaches and future research directions.
Object Oriented And Classical Software Engineering Schach 2005 **SOFTWARE ENGINEERING** S. A. KELKAR 2007-09-13 A decade ago nobody could have imagined the crucial role that software would play in our everyday life. The artificial boundaries between hardware, software, telecommunication, and many other disciplines are getting blurred very rapidly. This book presents the essentials of theory and practice of

software engineering in an abstracted form. Presenting the information based on software development life cycle, the text guides the students through all the stages of software production—Requirements, Designing, Construction, Testing and Maintenance. Key Features : Emphasizes on non-coding areas Includes appendices on "need to know" basis Makes the learning easier as organized by software development life cycle This text is well suited for academic courses on Software Engineering or for conducting training programmes for software professionals. This book will be equally useful to the instructors of software engineering as well as busy professionals who wish to grasp the essentials of software engineering without attending a formal instructional course.

Software Engineering Concepts Richard E. Fairley 1985

Software Engineering Waman. S. Jawadekar 2004 This title stresses on Object Oriented and Classical Approach, by resorting to a concise presentation of the subject. In tune with reviewer comments and market feedback, the book takes an approach whereby a more balanced emphasis has been given to Design,

The Art and Technology of Software Engineering R. Ramaswamy 2002 Software engineering is a rich landscape of models and methods, encompassing a variety of technical activities. The Art and Technology of Software Engineering weaves in some crucial, engaging and challenging aspects that are of interest to the software de.

SOFTWARE ENGINEERING: A SYSTEMATIC APPROACH Dr. Shakti Kundu 2020-07-06 Software Engineering Approach Software engineering is an engineering discipline that's applied to the development of software in a systematic approach (called a software process). It's the application of theories, methods, and tools to design build a software that meets the specifications efficiently, cost-effectively, and ensuring quality. Need of Engineering Aspect of Software Design Software design is the process by which an agent creates a specification of a software artifact, intended to accomplish goals, using a set of primitive components and subject to constraints Software design may refer to either "all the activity involved in conceptualizing, framing, implementing, commissioning, and ultimately modifying complex systems" or "the activity following requirements specification and before programming, as ... [in] a stylized software engineering process." Software design usually involves problem solving and planning a software solution. This includes both a low-level component and algorithm design and a high-level, architecture design.

Research Anthology on Agile Software, Software Development, and Testing Management Association, Information Resources 2021-11-26 Software development continues to be an ever-evolving field as organizations require new and innovative programs that can be implemented to make processes more efficient, productive, and cost-effective. Agile practices

particularly have shown great benefits for improving the effectiveness of software development and its maintenance due to their ability to adapt to change. It is integral to remain up to date with the most emerging tactics and techniques involved in the development of new and innovative software. The Research Anthology on Agile Software, Software Development, and Testing is a comprehensive resource on the emerging trends of software development and testing. This text discusses the newest developments in agile software and its usage spanning multiple industries. Featuring a collection of insights from diverse authors, this research anthology offers international perspectives on agile software. Covering topics such as global software engineering, knowledge management, and product development, this comprehensive resource is valuable to software developers, software engineers, computer engineers, IT directors, students, managers, faculty, researchers, and academicians. *Enterprise Information Systems and Implementing IT Infrastructures: Challenges and Issues* Parthasarathy, S. 2010-03-31 "This book aims at identifying potential research problems and issues in the EIS such as Enterprise Resource Planning (ERP), Supply Chain Management (SCM), and Customer Relationship Management (CRM)"--Provided by publisher. Software Engineering Nasib Singh Gill Each and every chapter covers the contents up to a reasonable depth necessary for the intended readers in

the field. The book consists in all about 1200 exercises based on the topics and sub-topics covered. Keeping in view the emerging trends in newly emerging scenario with new dimension of software engineering, the book specially includes the following chapters, but not limited to these only. This book explains all the notions related to software engineering in a very systematic way, which is of utmost importance to the novice readers in the field of software Engineering.

Computational Intelligence Techniques and Their Applications to Software Engineering Problems Ankita Bansal 2020-09-28 Computational Intelligence Techniques and Their Applications to Software Engineering Problems focuses on computational intelligence approaches as applicable in varied areas of software engineering such as software requirement prioritization, cost estimation, reliability assessment, defect prediction, maintainability and quality prediction, size estimation, vulnerability prediction, test case selection and prioritization, and much more. The concepts of expert systems, case-based reasoning, fuzzy logic, genetic algorithms, swarm computing, and rough sets are introduced with their applications in software engineering. The field of knowledge discovery is explored using neural networks and data mining techniques by determining the underlying and hidden patterns in software data sets. Aimed at graduate students and researchers in computer science engineering, software engineering, information technology,

this book: Covers various aspects of in-depth solutions of software engineering problems using computational intelligence techniques Discusses the latest evolutionary approaches to preliminary theory of different solve optimization problems under software engineering domain Covers heuristic as well as meta-heuristic algorithms designed to provide better and optimized solutions Illustrates applications including software requirement prioritization, software cost estimation, reliability assessment, software defect prediction, and more Highlights swarm intelligence-based optimization solutions for software testing and reliability problems **Handbook of Research on Innovations in Systems and Software Engineering** Díaz, Vicente García 2014-08-31

Professionals in the interdisciplinary field of computer science focus on the design, operation, and maintenance of computational systems and software. Methodologies and tools of engineering are utilized alongside the technological advancements of computer applications to develop efficient and precise databases of information. The Handbook of Research on Innovations in Systems and Software Engineering combines relevant research from all facets of computer programming to provide a comprehensive look at the challenges and changes in the field. With information spanning topics such as design models, cloud computing, and security, this handbook is an essential reference source for academicians, researchers,

practitioners, and students interested in the development and design of improved and effective technologies.

Software Quality Assurance Rajiv Chopra 2018-04-09 This overview of software quality assurance testing in a "self-teaching" format contains easy-to- understand chapters with tips and insights about software quality, its basic concepts, applications, and practical case studies. It includes numerous, end-of-chapter questions with answers to test your knowledge and reinforce mastery of the concepts being presented. The book also includes state of the art material on the video-game testing process (Chapter 14) and a game-testing plan template (Chapter 15) and Game Testing by the Numbers (Chapter 16). Features: • Covers important topics such as black, white, and gray box testing, test management, automation, levels of testing, quality models, system and acceptance testing and more • Covers video game testing and effectiveness • Self-teaching method includes software lab experiments, numerous exercises (many with answers), projects, and case studies **OBJECT-ORIENTED SOFTWARE ENGINEERING** YOGESH SINGH 2012-03-05 This comprehensive and well-written book presents the fundamentals of object-oriented software engineering and discusses the recent technological developments in the field. It focuses on object-oriented software engineering in the context of an overall effort to present object-oriented concepts, techniques and models that can be applied in

software estimation, analysis, design, testing and quality improvement. It applies unified modelling language notations to a series of examples with a real-life case study. The example-oriented approach followed in this book will help the readers in understanding and applying the concepts of object-oriented software engineering quickly and easily in various application domains. This book is designed for the undergraduate and postgraduate students of computer science and engineering, computer applications, and information technology. KEY FEATURES : Provides the foundation and important concepts of object-oriented paradigm. Presents traditional and object-oriented software development life cycle models with a special focus on Rational Unified Process model. Addresses important issues of improving software quality and measuring various object-oriented constructs using object-oriented metrics. Presents numerous diagrams to illustrate object-oriented software engineering models and concepts. Includes a large number of solved examples, chapter-end review questions and multiple choice questions along with their answers. *Evolutionary Computation and Optimization Algorithms in Software Engineering: Applications and Techniques* Chis, Monica 2010-06-30 Evolutionary Computation and Optimization Algorithms in Software Engineering: Applications and Techniques lays the foundation for the successful integration of evolutionary computation into

software engineering. It surveys techniques ranging from genetic algorithms, to swarm optimization theory, to ant colony optimization, demonstrating their uses and capabilities. These techniques are applied to aspects of software engineering such as software testing, quality assessment, reliability assessment, and fault prediction models, among others, to providing researchers, scholars and students with the knowledge needed to expand this burgeoning application.

Software Engg Concepts Fairley 2001-04

Software Engineering 2004 This title stresses on Object Oriented and Classical Approach, by resorting to a concise presentation of the subject. In tune with reviewer comments and market feedback, the book takes an approach whereby a more balanced emphasis has been given to Design.

Competency Focused Software Engineering Education S Sheeba Rani 2018-10-10 India's most prized resource in today's knowledge-based economy is its available technical workforce, especially in the IT sector. As the IT industry in India matures, this shall become an impediment for growth, due to lack of trained manpower for product-based and research-based products. Though there are adequate human resources in India, the most challenging task is to train those human resources in an effective manner to meet the expectations of the industry. The growth of the software industry depends on the success of the projects undertaken. This, in turn, creates higher employment

opportunities in that sector. One of the most important requirements to achieve high success rate in the projects is the availability of competent software engineers. Developing competent software engineers can be achieved only through proper formal education and relevant training as required by the industry. The future success of this industry depends more on the quality of education to meet the global competitive market. This book focuses on identifying the deficiencies in the present curricula of software engineering programmes, their implementation and various methods for enhancing the curricula of undergraduate programmes, faculty competencies, instructional delivery and the skill sets of software graduates.

Agile Estimation Techniques and Innovative Approaches to Software Process Improvement Colomo-Palacios, Ricardo 2014-02-28 Applying methodologies of Software Process Improvement (SPI) is an effective way for businesses to remain competitive in the software industry. However, many organizations find implementing software process initiatives challenging. Agile Estimation Techniques and Innovative Approaches to Software Process Improvement reviews current SPI techniques and applications through discussions on current and future trends as well as the presentation of case studies on SPI implementation. Ideal for use by academics, students, and policy-makers, as well as industry professionals and managers, this publication provides a complete

overview of current tools and methodologies regarding Software Process Improvement.

Software Testing Rajiv Chopra 2018-02-05 This overview of software testing provides key concepts, case studies, and numerous techniques to ensure software is reliable and secure. Using a self-teaching format, the book covers important topics such as black, white, and gray box testing, video game testing, test point analysis, automation, and levels of testing. Includes end-of-chapter multiple-choice questions / answers to increase mastering of the topics. Features: • Includes case studies, case tools, and software lab experiments • Covers important topics such as black, white, and gray box testing, test management, automation, levels of testing, • Covers video game testing • Self-teaching method includes numerous exercises, projects, and case studies *Software Testing* Srinivasan Desikan 2006 "Software Testing: Principles and Practices is a comprehensive treatise on software testing. It provides a pragmatic view of testing, addressing emerging areas like extreme testing and ad hoc testing"-- Resource description page.